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1.2 gson 2.2

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1.3 httpclient-cache 4.1.1

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1.4 spdy-core 9.0.1.v20130408

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1.6 snmp4j-agent 2.0.7

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1.13 commons-http-client 3.1

1.13.1 Available under license :

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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/MalformedChallengeException.java,v 1.6
2004/05/13 04:02:00 mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/MalformedChallengeException.java
```

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpException.java,v 1.19 2004/09/30 18:53:20 olegk
Exp $
```

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpException.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodBase.java,v 1.222 2005/01/14 21:16:40
olegk Exp $

```

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* $Revision: 539441 $
* $Date: 2007-05-18 14:56:55 +0200 (Fri, 18 May 2007) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpMethodBase.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/DigestScheme.java,v 1.22 2004/12/30 11:01:27
oglueck Exp \$
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jar/org/apache/commons/httpclient/auth/DigestScheme.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthenticator.java,v 1.19 2004/10/06
17:32:04 olegk Exp \$
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodRetryHandler.java,v 1.2 2004/09/14 20:11:31 olegk Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ConnectTimeoutException.java,v 1.5 2004/07/05 22:46:58 olegk Exp \$

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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19
olegk Exp $
* $Revision: 480424 $
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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedOutputStream.java,v 1.16 2004/05/13
04:03:25 mbecke Exp \$
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commons/httpclient/src/java/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java,v 1.47
2004/12/21 11:27:55 olegk Exp $
* $Revision: 564906 $
* $Date: 2007-08-11 14:27:18 +0200 (Sat, 11 Aug 2007) $
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/*
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commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java,v 1.10
2004/05/13 04:01:22 mbecke Exp $
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp \$
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/Header.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/WireLogOutputStream.java,v 1.7 2004/06/24 21:39:52 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/WireLogOutputStream.java

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* \$Revision: 480424 \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/InvalidRedirectLocationException.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HeaderElement.java,v 1.23 2004/05/13 04:03:25 mbecke Exp \$

* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HeaderElement.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethod.java,v 1.43 2004/10/07 16:14:15 olegk
Exp \$

* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpMethod.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34
jsdever Exp \$

* \$Revision: 505890 \$
* \$Date: 2007-02-11 12:25:25 +0100 (Sun, 11 Feb 2007) \$

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jar/org/apache/commons/httpclient/AutoCloseInputStream.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java,v 1.10
2004/05/13 04:01:22 mbecke Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-

jar/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/OptionsMethod.java,v 1.15 2004/04/18 23:51:37 jsdever Exp \$

* \$Revision: 480424 \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/OptionsMethod.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/cookie/MalformedCookieException.java,v 1.8 2004/05/13 04:02:00 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/MalformedCookieException.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java,v 1.4
2004/05/13 04:02:00 mbecke Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java,v 1.2 2004/04/18
23:51:36 jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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jar/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScheme.java,v 1.12 2004/05/13 04:02:00
mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthScheme.java

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/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/methods/FileRequestEntity.java $
* $Revision: 486665 $
* $Date: 2006-12-13 15:19:07 +0100 (Wed, 13 Dec 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/FileRequestEntity.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk
Exp $
* $Revision: 507321 $
* $Date: 2007-02-14 01:10:51 +0100 (Wed, 14 Feb 2007) $
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 jar/org/apache/commons/httpclient/util/URIUtil.java

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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55
 olegk Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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jar/org/apache/commons/httpclient/ChunkedInputStream.java
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/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/cookie/RFC2965Spec.java \$

* \$Revision: 507134 \$

* \$Date: 2007-02-13 19:18:05 +0100 (Tue, 13 Feb 2007) \$

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\$HeadURL:https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/trunk/src/java/org/apache/commons/httpclient/cookie/CookieOrigin.java \$

* \$Revision:400312 \$

* \$Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/TimeoutController.java,v 1.6 2004/04/18 23:51:38

jsdever Exp \$

* \$Revision: 480424 \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java,v 1.6
2004/04/18 23:51:38 jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java,v 1.7
 2004/04/18 23:51:37 jsdever Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionParams.java,v 1.6 2004/09/15
20:32:21 olegk Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-

jar/org/apache/commons/httpclient/params/HttpConnectionParams.java

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Cookie.java,v 1.44 2004/06/05 16:49:20 olegk Exp $
 * $Revision: 531354 $
 * $Date: 2007-04-23 08:53:20 +0200 (Mon, 23 Apr 2007) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/Cookie.java

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22
mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
 *
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jar/org/apache/commons/httpclient/util/ParameterParser.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParser.java,v 1.11 2004/11/06 19:15:42
mbecke Exp \$
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jar/org/apache/commons/httpclient/util/DateParser.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36
jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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jar/org/apache/commons/httpclient/auth/AuthSchemeBase.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthState.java,v 1.3 2004/11/02 19:39:16 olegk
Exp \$

* \$Revision: 480424 \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthState.java

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeParser.java,v 1.10 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 480424 $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/AuthChallengeParser.java

```

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParams.java,v 1.6 2004/05/13 04:01:22
mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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 jar/org/apache/commons/httpclient/params/HttpParams.java

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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java,v 1.6 2004/09/14
 20:11:31 olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/EntityEnclosingMethod.java,v 1.39
2004/07/03 14:27:03 olegk Exp \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScope.java,v 1.2 2004/06/23 06:50:25 olegk Exp \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/cookie/RFC2109Spec.java,v 1.21 2004/06/05

16:49:20 olegk Exp \$

* \$Revision: 507134 \$

* \$Date: 2007-02-13 19:18:05 +0100 (Tue, 13 Feb 2007) \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/DateUtil.java,v 1.2 2004/12/24 20:36:13 olegk
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commons/httpclient/src/java/org/apache/commons/httpclient/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke
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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpParser.java,v 1.13 2005/01/11 13:57:06 oglueck
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* \$Revision: 533405 \$
* \$Date: 2007-04-28 20:19:29 +0200 (Sat, 28 Apr 2007) \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsProvider.java,v 1.6 2004/07/05 22:46:59 olegk Exp \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/CredentialsProvider.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/RedirectException.java,v 1.2 2004/04/18 23:51:35 jsdever Exp \$

```

* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/RedirectException.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/SimpleHttpConnectionManager.java,v 1.23
2004/10/16 22:40:08 mbecke Exp $

```

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/SimpleHttpConnectionManager.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NoHttpResponseException.java,v 1.1 2004/07/05
22:46:58 olegk Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/NoHttpResponseException.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/WireLogInputStream.java,v 1.15 2004/06/24 21:39:52
mbecke Exp $
* $Revision: 480424 $
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/WireLogInputStream.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParamsFactory.java,v 1.5 2004/05/13 04:01:22 mbecke Exp \$

* \$Revision: 480424 \$

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No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/Protocol.java,v 1.10 2004/04/18 23:51:38 jsdever Exp \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/protocol/Protocol.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLM.java,v 1.11 2004/05/13 04:02:00 mbecke
Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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*/
/**
* Provides an implementation of the NTLM authentication protocol.
* <p>
* This class provides methods for generating authentication
* challenge responses for the NTLM authentication protocol. The NTLM
* protocol is a proprietary Microsoft protocol and as such no RFC
* exists for it. This class is based upon the reverse engineering
* efforts of a wide range of people.</p>
*
* <p>Please note that an implementation of JCE must be correctly installed
and configured when
* using NTLM support.</p>
*
* <p>This class should not be used externally to HttpClient as it's API is specifically
* designed to work with HttpClient's use case, in particular it's connection management.</p>
*
* @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>
* @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @version $Revision: 480424 $ $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
* @since 3.0
*/

```

Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/NTLM.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /cvsroot/httpc-cookie2/httpc-cookie2/httpcookie2SVN-patch.082805-2100.diff,v 1.1 2005/08/29
05:01:58 sjain700 Exp $

```

```

* $Revision:400312 $
* $Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) $
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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/Cookie2.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpec.java,v 1.11 2004/09/14 20:11:31
olegk Exp $

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* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/CookieSpec.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/RFC2617Scheme.java,v 1.10 2004/05/13
04:02:00 mbecke Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/RFC2617Scheme.java
```

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.11 2004/09/30 17:26:41 oglueck
Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/NameValuePair.java,v 1.17 2004/04/18 23:51:35 jsdever Exp \$

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* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/NameValuePair.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/DeleteMethod.java,v 1.14 2004/04/18 23:51:37 jsdever Exp \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/DeleteMethod.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java,v 1.1
2004/07/05 22:46:58 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31
olegk Exp $
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jar/org/apache/commons/httpclient/cookie/CookiePolicy.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/URIException.java,v 1.12 2004/09/30 18:53:20 olegk

Exp \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/URIException.java

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java,v 1.10
2004/05/13 04:01:22 mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/ExpectContinueMethod.java,v 1.13
2004/05/08 10:12:08 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/methods/ExpectContinueMethod.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/util/URLConnection.java,v 1.15 2004/04/18
 23:51:38 jsdever Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/util/URLConnection.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectMethod.java,v 1.29 2004/06/24 21:39:52
mbecke Exp \$

* \$Revision: 483949 \$

* \$Date: 2006-12-08 12:34:50 +0100 (Fri, 08 Dec 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ConnectMethod.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartBase.java,v 1.5 2004/04/18 23:51:37 jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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No license file was found, but licenses were detected in source scan.

```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java,v 1.16
2004/11/20 21:48:47 mbecke Exp $
 * $Revision: 566065 $
 * $Date: 2007-08-15 10:34:30 +0200 (Wed, 15 Aug 2007) $
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 * /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java
No license file was found, but licenses were detected in source scan.

```

```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePart.java,v 1.19 2004/04/18
23:51:37 jsdever Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/multipart/FilePart.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/InvalidCredentialsException.java,v 1.4
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/auth/InvalidCredentialsException.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ProxyClient.java,v 1.5 2004/12/20 11:39:04 olegk Exp

\$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ProxyClient.java

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/*

*

\$HeadURL:https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/trunk/src/java/org/apache/commons/httpclient/cookie/CookieAttributeHandler.java \$

* \$Revision:400312 \$

* \$Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/CookieAttributeHandler.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpState.java,v 1.38 2004/12/20 11:50:54 olegk Exp \$

```

* $Revision: 561099 $
* $Date: 2007-07-30 21:41:17 +0200 (Mon, 30 Jul 2007) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpState.java

```

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/StringPart.java,v 1.11 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartSource.java,v 1.6 2004/04/18
23:51:37 jsdever Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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jar/org/apache/commons/httpclient/methods/multipart/PartSource.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java,v 1.2
2004/05/13 02:40:36 mbecke Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java

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/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/util/LangUtils.java \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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jar/org/apache/commons/httpclient/util/LangUtils.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeException.java,v 1.2 2004/04/18
23:51:36 jsdever Exp \$

* \$Revision: 480424 \$

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jar/org/apache/commons/httpclient/auth/AuthChallengeException.java
No license file was found, but licenses were detected in source scan.
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46
olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/util/ExceptionUtil.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpStatus.java,v 1.18 2004/05/02 11:21:13 olegk Exp
\$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
*
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpStatus.java
No license file was found, but licenses were detected in source scan.

/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/URL.java \$

* \$Revision: 564973 \$

* \$Date: 2007-08-11 22:51:47 +0200 (Sat, 11 Aug 2007) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/URL.java
No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/CircularRedirectException.java,v 1.1 2005/01/14
19:40:39 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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```

Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/CircularRedirectException.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/HeadMethod.java,v 1.29 2004/06/13
20:22:19 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
 jar/org/apache/commons/httpclient/methods/HeadMethod.java

No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParseException.java,v 1.5 2004/11/06
 19:15:42 mbecke Exp \$
 * \$Revision: 480424 \$
 * \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
 *
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/util/DateParseException.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/PutMethod.java,v 1.26 2004/04/18 23:51:37
jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/PutMethod.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpConstants.java,v 1.15 2004/04/18 23:51:35 jsdever Exp \$

* \$Revision: 480424 \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HttpConstants.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpecBase.java,v 1.28 2004/11/06

19:15:42 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/CookieSpecBase.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnection.java,v 1.107 2005/01/14 21:30:59
olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpConnection.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp
\$

* \$Revision: 510587 \$
* \$Date: 2007-02-22 17:56:08 +0100 (Thu, 22 Feb 2007) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/ProxyHost.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java,v 1.9
2004/09/13 16:25:20 olegk Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpMethodParams.java,v 1.17 2004/10/06 17:32:04 olegk Exp \$
* \$Revision: 483949 \$
* \$Date: 2006-12-08 12:34:50 +0100 (Fri, 08 Dec 2006) \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpRecoverableException.java,v 1.15 2004/07/05 22:46:58 olegk Exp \$
* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpRecoverableException.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnectionManager.java,v 1.24 2004/07/05
22:46:58 olegk Exp \$

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jar/org/apache/commons/httpclient/HttpConnectionManager.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java,v 1.2
2004/04/18 23:51:38 jsdever Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthPolicy.java,v 1.6 2004/05/13 04:02:00
mbecke Exp \$

* \$Revision: 480424 \$

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/**

* Authentication policy class. The Authentication policy provides corresponding
* authentication scheme interface for a given type of authorization challenge.

* <p>The following specifications are provided:

- *
- * <tt>Basic</tt>: Basic authentication scheme as defined in RFC2617
- * (considered inherently insecure, but most widely supported)
- * <tt>Digest</tt>: Digest authentication scheme as defined in RFC2617
- * <tt>NTLM</tt>:

The NTLM scheme is a proprietary Microsoft Windows

- * Authentication protocol (considered to be the most secure among
- * currently supported authentication schemes)

*

*

* @author Oleg Kalnichevski

*

* @version \$Revision: 480424 \$

* @since 3.0

*/

/**

- * The NTLM scheme is a proprietary Microsoft Windows Authentication
- * protocol (considered to be the most secure among currently supported
- * authentication schemes).

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthPolicy.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java,v 1.11 2004/05/13 04:02:00 mbecke Exp \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever
Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/Credentials.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HostParams.java,v 1.5 2004/10/06 17:32:04 olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/params/HostParams.java

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/*

* \$Header\$

* \$Revision:400312 \$

* \$Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) \$


```

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Found in path(s):

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/cookie/CookiePathComparator.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.18 2004/09/30 17:26:41 oglueck
Exp $
* $Revision: 507324 $
* $Date: 2007-02-14 01:12:11 +0100 (Wed, 14 Feb 2007) $
*

```

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Found in path(s):

```

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/HttpURL.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/methods/StringRequestEntity.java $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/methods/StringRequestEntity.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePartSource.java,v 1.10
2004/04/18 23:51:37 jsdever Exp \$
* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-

jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/NTCredentials.java,v 1.10 2004/04/18 23:51:35

jsdever Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-

jar/org/apache/commons/httpclient/NTCredentials.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParams.java,v 1.9 2004/12/21 23:15:21 olegk Exp \$

* \$Revision: 510589 \$

* \$Date: 2007-02-22 18:04:52 +0100 (Thu, 22 Feb 2007) \$

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```
* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/params/DefaultHttpParams.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ResponseConsumedWatcher.java,v 1.5 2004/04/18
23:51:35 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/ResponseConsumedWatcher.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpHost.java,v 1.3 2005/01/14 21:16:40 olegk Exp \$
* \$Revision: 510587 \$
* \$Date: 2007-02-22 17:56:08 +0100 (Thu, 22 Feb 2007) \$
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/Wire.java,v 1.9 2004/06/24 21:39:52 mbecke Exp \$

* \$Revision: 480424 \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ContentLengthInputStream.java,v 1.12 2004/10/04
22:05:44 olegk Exp \$
* \$Revision: 480424 \$
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jar/org/apache/commons/httpclient/ContentLengthInputStream.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/DefaultMethodRetryHandler.java,v 1.4 2004/07/05
22:46:58 olegk Exp \$
* \$Revision: 480424 \$
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jar/org/apache/commons/httpclient/DefaultMethodRetryHandler.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/RequestEntity.java,v 1.4 2004/05/17
21:46:03 olegk Exp $
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* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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jar/org/apache/commons/httpclient/methods/RequestEntity.java

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/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/util/ParameterFormatter.java \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpClientError.java,v 1.4 2004/05/13 04:03:25 mbecke Exp \$

* \$Revision: 480424 \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java,v 1.1

2004/10/06 03:39:59 mbecke Exp \$

* \$Revision: 502647 \$

* \$Date: 2007-02-02 17:22:54 +0100 (Fri, 02 Feb 2007) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/EncodingUtil.java,v 1.8 2004/05/13 04:01:22
mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/util/EncodingUtil.java

No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java,v 1.4
2004/12/21 23:15:21 olegk Exp \$
* \$Revision: 480424 \$
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jar/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java

No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionHandler.java,v 1.2 2004/05/13
02:40:36 mbecke Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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No license file was found, but licenses were detected in source scan.

/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/MethodRetryHandler.java,v 1.5 2004/07/05 22:46:58

olegk Exp \$

* \$Revision: 480424 \$

* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthenticationException.java,v 1.6 2004/05/13 04:02:00 mbecke Exp \$

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jar/org/apache/commons/httpclient/auth/AuthenticationException.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpClientParams.java,v 1.7 2004/05/13
04:01:22 mbecke Exp \$

* \$Revision: 480424 \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/params/HttpClientParams.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/Part.java,v 1.16 2005/01/14
21:16:40 olegk Exp $
* $Revision: 480424 $
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jar/org/apache/commons/httpclient/methods/multipart/Part.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java,v 1.3
2004/05/13 02:26:08 mbecke Exp \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java
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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/InputStreamRequestEntity.java,v 1.4 2004/05/17 21:46:03 olegk Exp \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLMScheme.java,v 1.21 2004/05/13 04:02:00

mbecke Exp \$

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* <http://davenport.sourceforge.net/ntlm.html>.

*

* @author <<mailto:remm@apache.org>>Remy Maucherat

* @author Rodney Waldhoff

* @author <<mailto:jsdever@apache.org>>Jeff Dever

* @author Ortwin Gl??ck

* @author Sean C. Sullivan

* @author <<mailto:adrian@ephox.com>>Adrian Sutton

* @author <<mailto:mbowler@GargoyleSoftware.com>>Mike Bowler

* @author <<mailto:oleg@ural.ru>>Oleg Kalnichevski

*/

Found in path(s):

* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/NTLMScheme.java

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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthRealm.java,v 1.9 2004/06/12 22:47:23
olegk Exp $
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/auth/HttpAuthRealm.java

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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/MultipartPostMethod.java,v 1.27 2004/10/06
03:39:59 mbecke Exp $
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 jar/org/apache/commons/httpclient/methods/MultipartPostMethod.java
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/*
 * \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/ProtocolException.java,v 1.4 2004/05/13 04:03:25
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/CookieVersionSupport.java

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java,v 1.3

2004/12/20 11:47:46 olegk Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/UsernamePasswordCredentials.java,v 1.14 2004/04/18
23:51:35 jsdever Exp \$

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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-
jar/org/apache/commons/httpclient/UsernamePasswordCredentials.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpClient.java,v 1.98 2004/10/07 16:14:15 olegk Exp
\$

* \$Revision: 509577 \$

* \$Date: 2007-02-20 15:28:18 +0100 (Tue, 20 Feb 2007) \$

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jar/org/apache/commons/httpclient/HttpClient.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HostConfiguration.java,v 1.23 2005/01/14 21:16:40
olegk Exp \$
* \$Revision: 510585 \$
* \$Date: 2007-02-22 17:52:16 +0100 (Thu, 22 Feb 2007) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HostConfiguration.java

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodDirector.java,v 1.34 2005/01/14 19:40:39 olegk Exp \$

* \$Revision: 486658 \$

* \$Date: 2006-12-13 15:05:50 +0100 (Wed, 13 Dec 2006) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/BasicScheme.java,v 1.17 2004/05/13 04:02:00 mbecke Exp \$

* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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jar/org/apache/commons/httpclient/auth/BasicScheme.java

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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/PostMethod.java,v 1.58 2004/08/08 12:50:09
olegk Exp \$

* \$Revision: 480424 \$
* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$
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* /opt/cola/permits/146717996_1695304081.4632068/0/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/PostMethod.java

1.14 apache-mime4j-core 0.7.2

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1.15 minlog 1.3.0

1.16 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.17 failureaccess 1.0.1

1.18 commons-beanutils 1.9.4

1.18.1 Available under license :

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1.19 ezmorph 1.0.6

1.20 reflectasm 1.10.0

1.21 jedis 2.4.2

1.22 jnr-x86asm 1.0.2

1.23 commons-digester 1.8

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```
*/opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
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```
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jar/org/apache/commons/digester/plugins/LogUtils.java
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: SetPropertyRule.java 471661 2006-11-06 08:09:25Z skitching $
*
```

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jar/org/apache/commons/digester/SetPropertyRule.java

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/* \$Id: MultiVariableExpander.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java

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/* \$Id: RuleFinder.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: FinderFromDfltResource.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java

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/* \$Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/CircularIncludeException.java
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/* \$Id: FinderFromDfltMethod.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltMethod.java
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/* \$Id: SetRootRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: VariableAttributes.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: FinderFromResource.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: VariableExpander.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/substitution/VariableExpander.java
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/* \$Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: InitializableRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/RulesFactory.java
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/* \$Id: XercesParser.java 471661 2006-11-06 08:09:25Z skitching \$
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/* \$Id: FinderFromClass.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java

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/* \$Id: XmlLoadException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/XmlLoadException.java  
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```
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jar/org/apache/commons/digester/AbstractObjectCreationFactory.java

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jar/org/apache/commons/digester/Rule.java
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Found in path(s):

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jar/org/apache/commons/digester/ParserFeatureSetterFactory.java
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Found in path(s):

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jar/org/apache/commons/digester/Substitutor.java

No license file was found, but licenses were detected in source scan.

/* \$Id: Digester.java 480169 2006-11-28 19:37:36Z rahul \$

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jar/org/apache/commons/digester/Digester.java

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/* \$Id: ObjectParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/ObjectParamRule.java

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/* \$Id: PluginException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/PluginException.java

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/* \$Id: VariableSubstitutor.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/substitution/VariableSubstitutor.java
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/* \$Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
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/* \$Id: PathCallParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: DigesterLoader.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: DigesterRuleParser.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/DigesterRuleParser.java
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/* \$Id: BeanPropertySetterRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching \$

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/* \$Id: RulesBase.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/RulesBase.java

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/* \$Id: PluginInvalidInputException.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/PluginInvalidInputException.java

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/* \$Id: RegexRules.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: LoaderFromStream.java 471661 2006-11-06 08:09:25Z skitching \$

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/* $Id: SetNextRule.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/plugins/package.html

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/opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-

jar/org/apache/commons/digester/substitution/package.html

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/overview.html

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jar/org/apache/commons/digester/plugins/strategies/package.html

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jar/org/apache/commons/digester/xmlrules/package.html

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jar/org/apache/commons/digester/xmlrules/digester-rules.dtd

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jar/org/apache/commons/digester/parser/package.html

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jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java

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/* \$Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/PluginAssertionFailure.java
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/* \$Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching \$

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jar/org/apache/commons/digester/CallParamRule.java
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/* \$Id: StackAction.java 476205 2006-11-17 16:43:10Z dennisl \$
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/* \$Id: ObjectCreateRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: ObjectCreationFactory.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: PluginDeclarationRule.java 472837 2006-11-09 10:07:51Z skitching \$

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/* \$Id: LoaderSetProperties.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-

jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java

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17 20:00:50Z rahul \$

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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/package.html

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/* \$Id: SetTopRule.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/SetTopRule.java

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/* $Id: FromXmlRuleSet.java 471661 2006-11-06 08:09:25Z skitching $
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```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java
```

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```
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Found in path(s):

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java
```

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/Rules.java
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```
/* $Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul $
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```
* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/PluginContext.java
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```
/* $Id: RuleLoader.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/plugins/RuleLoader.java

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/* \$Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java

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/* \$Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
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jar/org/apache/commons/digester/RuleSet.java
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1.24 kryo 3.0.0

1.25 json-lib 2.4

1.26 jnr-a64asm 1.0.0

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1.28 go-sockaddr 1.0.2

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1.29 file 5.37-r1

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1.30 event-stream 1.0.1

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1.31 bean-validation-api 1.0.0.GA

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1.32 jboss-logging 3.4.1.Final

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1.33 Isb 11.1.0

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1.36 commons-parent 43-1

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1.37 sqlite 3.44.0

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1.38 keyutils 1.6.1-2

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```
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library,
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1.39 shadow 4.8.1-1

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1.42 libgpg-error 1.38-2

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```
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under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.44 jackson-mapper-asl 1.8.1

1.44.1 Available under license :

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```
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*  
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* Licensed under the License specified in file LICENSE, included with  
* the source code and binary code bundles.  
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1085366257_1598962829.81/0/jackson-mapper-asl-1-8-1-sources-2-  
jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

1.45 commons-io 2.7

1.45.1 Available under license :

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1.46 jctools-core 3.1.0

1.46.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```
  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
      <version>${guava-testlib.version}</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
```

```

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M3</version>
      <configuration>
        <includes>
          <include>*</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>4.2.1</version>
      <extensions>>true</extensions>
      <configuration>
        <instructions>
          <Import-Package>sun.misc;resolution:=optional</Import-Package>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>3.2.0</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <phase>verify</phase>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>3.1.1</version>
      <configuration>
        <additionalOptions>
          <additionalOption>-Xdoclint:none</additionalOption>
        </additionalOptions>
        <source>8</source>
      </configuration>
      <executions>

```

```

<execution>
  <id>attach-javadocs</id>
  <goals>
    <goal>jar</goal>
  </goals>
</execution>
</executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>

```

```

<url>https://github.com/kay</url>
</developer>
<developer>
  <url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
<maven>3.5.0</maven>
</prerequisites>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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/*

```

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*/

```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MPMCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedListAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCLinkedList.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MPMCUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedListAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MPMCArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedListAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpMCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpvcChunkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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*
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jar/org/jctools/queues/MpscUnboundedXaddChunk.java
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jar/org/jctools/queues/LinkedQueueNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpvcUnboundedArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeAccess.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCGrowAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
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/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

1.47 libsepol 3.1-1

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Any executables

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1.48 xerces-j 2.12.2

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1.51 libcap 2.44-1

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1.54 libcap-ng 0.7.9-2.2+b1

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1.59 xml-commons-resolver 1.2

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.62 mawk 1.3.4.20200120-2

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This option is useful when you wish to copy part of the code of

the

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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1.66 diffutils 3.7-5

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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1.77 libpsl 0.21.0-1.2

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1.78 debianutils 4.11.2

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1.79 libidn 2.3.0-5

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Files:

man/rmd160.3

man/sha1.3

man/sha2.3

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man/mdX.3

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1.81 commons-dbc 1.2.2

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1.82 javolution 6.0.0

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1.83 joda-time 2.1

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1.84 asm 4.2

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```

```
*/
```

```
/**
```

```
* Creates a new { @link GeneratorAdapter }. Subclasses must not use this
```

```
* constructor</i>. Instead, they must use the
```

```
* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
```

```
* version.
```

```
*
```

```
* @param mv
```

```
* the
```

```
method visitor to which this adapter delegates calls.
```

```
* @param access
```

```
* the method's access flags (see { @link Opcodes}).
```

```
* @param name
```

```
*      the method's name.
* @param desc
*      the method's descriptor (see { @link Type Type}).
*/
```

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```
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/util/ASMifiable.java
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/tree/analysis/package.html
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/util/package.html
*
/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/commons/package.html
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/package.html
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/**

* Constructs a new {@link Textifier}. *Subclasses must not use this*

* constructor*.* Instead, they must use the {@link #Textifier(int)}

* version.

*/

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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
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/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/JumpInsnNode.java

* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
*
/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/analysis/Frame.java
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/ClassReader.java
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jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-

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jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/MethodVisitor.java
*
/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
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jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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```
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```

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```

```

*/
/**
 * Creates a new {@link AnalyzerAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *
 *     the owner's class name.
 * @param access
 *     the method's access flags (see {@link Opcodes}).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see {@link Type Type}).
 * @param mv
 *     the method visitor to which this adapter delegates calls. May
 *     be null.
 */

```

Found in path(s):

```

*/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/

/**

* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
*
* @param mv
*
the `MethodVisitor` to send the resulting inlined
* method code to (use `null` for none).
* @param access
* the method's access flags (see {@link Opcodes}). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type}).
* @param signature
* the method's signature. May be `null`.
* @param exceptions
* the internal names of the method's exception classes (see
* {@link Type#getInternalName() getInternalName}). May be
* `null`.
*/

Found in path(s):

* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-signatures.properties

* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-writer.properties

* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-resize.properties

*

/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/optimizer/shrink.properties

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```
*/
/**
 * Constructs a new {@link ClassNode}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #ClassNode(int)}
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
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```
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 */
```

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```
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
```

*
/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java

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~

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<![CDATA[

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* /opt/cola/permits/1138190217_1614271859.16/0/jakarta-validation-api-3-0-0-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

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Manifest-Version: 1.0

Bundle-Description: Jakarta Bean Validation API

Automatic-Module-Name: jakarta.validation

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: jakarta.validation.jakarta.validation-api

Built-By: jenkins

Bnd-LastModified: 1593873743039

Bundle-ManifestVersion: 2

Bundle-DocURL: <https://www.eclipse.org>

Bundle-Vendor: Eclipse Foundation

Import-Package: jakarta.validation;version="[3.0,4)",jakarta.validation.bootstrap;version="[3.0,4)",jakarta.validation.executable;version="[3.0,4)",jakarta.validation.metadata;version="[3.0,4)",jakarta.validation.spi;version="[3.0,4)",jakarta.validation.valueextraction;version="[3.0,4)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-3.2.0.201605172007

Export-Package: jakarta.validation;version="3.0.0";uses="jakarta.val

ation.bootstrap,jakarta.validation.executable,jakarta.validation.met
adata,jakarta.validation.spi,jakarta.validation.valueextraction",jaka
rta.validation.bootstrap;version="3.0.0";uses:="jakarta.validation",j
akarta.validation.constraints;version="3.0.0";uses:="jakarta.validati
on",jakarta.validation.constraintvalidation;version="3.0.0",jakarta.v
alidation.executable;version="3.0.0";uses:="jakarta.validation",jakar
ta.validation.groups;version="3.0.0",jakarta.validation.metadata;vers
ion="3.0.0";uses:="jakarta.validation",jakarta.validation.spi;version
="3.0.0";uses:="jakarta.validation,jakarta.validation.valueextraction
",jakarta.validation.valueextraction;version="3.0.0";uses:="jakarta.v
alidation"

Bundle-Name: Jakarta Bean Validation API

Bundle-Version: 3.0.0

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_202

Found in path(s):

* /opt/cola/permits/1138190217_1614271859.16/0/jakarta-validation-api-3-0-0-jar/META-INF/MANIFEST.MF

1.86 headline 8.1

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@c End:
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```

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1.88 aspect-j 1.5.4

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Manifest-Version: 1.0

Name: org/aspectj/lang/

Specification-Title: AspectJ Runtime Classes

Specification-Version: 1.5

Specification-Vendor: aspectj.org

Implementation-Title: org.aspectj.tools

Implementation-Version: 1.5.4

Implementation-Vendor: aspectj.org

Bundle-Name: AspectJ

Bundle-Version: 1.5

Import-Package: org.aspectj.lang,org.aspectj.lang.reflect,org.aspectj.
runtime

Bundle-Copyright: (C) Copyright 1999-2001 Xerox Corporation, 2002 Palo
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Found in path(s):

* /opt/cola/permits/1000749932_1610455628.3/0/aspectjrt-1-5-4-jar/META-INF/MANIFEST.MF

1.89 elfutils 0.183-1

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```
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it
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.91 zstd 1.4.8+dfsg-2.1

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```
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1.92 iproute 5.10.0-4

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Upstream-Name: iproute2

Source: <https://www.kernel.org/pub/linux/utils/net/iproute2/>

Comment:

The former upstream was:

<http://devresources.linuxfoundation.org/dev/iproute2/download/>

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1.93 linux-atm 2.5.1-4

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```
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```

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That's all there is to it!

/*

* Marko Kiiskila carnil@cs.tut.fi

*

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*

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* Java HTML Tidy - JTidy
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Version 2.1, February 1999

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

com/lowagie/text/pdf/codec/BmpImage.java

(first appearance in iText: 2003-06-20)

com/lowagie/text/pdf/codec/PngImage.java (first appearance in iText: 2003-04-25)

com/lowagie/text/pdf/codec/TIFFDirectory.java (first appearance in iText: 2003-04-09)

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com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order.
The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI.
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Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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1.99 procps 3.3.17-5

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1.104 libxcrypt 4.4.18-4

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1.105 libffi 3.3-6

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1.111 gpm 1.20.7-8

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1.112 oniguruma 6.9.6-1.1

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1.113 jq 1.6-2.1

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1.114 libonig 6.9.6-1.1

1.114.1 Available under license :

Oniguruma LICENSE

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1.115 cracklib 2.9.6-3.4

1.115.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: cracklib

Upstream-Contact: Nathan Neulinger <nneul@umr.edu>

Source: <https://github.com/cracklib/cracklib>

Files: *

Copyright: 1993 Alec Muffett <alecm@crypto.dircon.co.uk>

2005-2015 Nathan Neulinger <nneul@umr.edu>

2008-2015 Jan Dittberner <jan@dittberner.info>

License: LGPL-2.1

Comment:

Starting from version 2.8.15 released on 2009-11-19 cracklib is licensed under the terms of the LGPL 2.1. For a detailed discussion and history see README-LICENSE.

Files: debian/*

Copyright: 1998 Jean Pierre LeJacq

Martin Pitt <martin@piware.de>

Jan Dittberner <jandd@debian.org>

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1.116 xz-java 1.9

1.116.1 Available under license :

Licensing of XZ for Java

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1.117 daemon-tools 0.76-7

1.117.1 Available under license :

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```
/* Public domain. */
```

```
/* sysdep: -sigaction */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h1
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +waitpid */
```

```
#define HASWAITPID 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
#ifndef UINT64_H
```

```
#define UINT64_H
```

```
/* sysdep: -ulong64 */
```

```
typedef unsigned long long uint64;
```

```
#endif
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h1
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +mkfifo */
```

```
#define HASMKFIFO 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkffo.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
#ifndef UINT64_H
```

```
#define UINT64_H
```

```
/* sysdep: +ulong64 */
```

```
typedef unsigned long uint64;
```

```
#endif
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: -waitpid */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h1
```

No license file was found, but licenses were detected in source scan.

/ Public domain. */*

/ sysdep: +shortsetgroups */*

#define HASSHORTSETGROUPS 1

Found in path(s):

** /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h2*

No license file was found, but licenses were detected in source scan.

/ Public domain. */*

/ sysdep: -flock */*

Found in path(s):

** /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h1*

No license file was found, but licenses were detected in source scan.

/ Public domain. */*

/ sysdep: -sigprocmask */*

Found in path(s):

** /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasgprm.h1*

No license file was found, but licenses were detected in source scan.

/ Public domain. */*

/ sysdep: -shortsetgroups */*

Found in path(s):

** /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h1*

No license file was found, but licenses were detected in source scan.

/ Public domain. */*

/ sysdep: +flock */*

#define HASFLOCK 1

Found in path(s):

** /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h2*

No license file was found, but licenses were detected in source scan.

/* Public domain. */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_less.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_pause.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay.h

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/x86cpuid.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trypoll.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_start.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay_on.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_eady.c

*

/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc.h

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_copy.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trycpp.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr_sys.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd_copy.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_rchr.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr.h

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_get.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_pend.c

*

/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait_pid.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_cats.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-

0.76/src/pathexec_env.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryulong64.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_write.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/openreadclose.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trymkffo.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec_run.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_unpack.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/chkshsgr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_write.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_now.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_uint0.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd_move.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_1.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_read.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/env.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_len.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_opyb.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_diff.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_add.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_ulong.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/env.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_catb.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_uint.c
*
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_opys.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/alloc.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trysgprm.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_block.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/alloc.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_approx.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trysysel.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_now.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_chr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_pack.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_2.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/subgetopt.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_sub.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/iopause.h2
*

/opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_uint.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/subgetopt.h
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_chr.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_0.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trydrent.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_pack.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_diff.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/iopause.h1
*
/opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_trunc.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str.h
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay_off.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/openreadclose.h
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/scan.h
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sgetopt.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/direntry.h2
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/gen_alloc.h
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/scan_ulong.c
*
/opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sgetopt.h
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock_exnb.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_frac.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryshsgr.c
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/select.h2
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/select.h1
* /opt/cola/permits/1146929125_1617008988.83/daemontools-0-76-orig-tar-gz/admin/daemontools-

0.76/src/trywaitp.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock_ex.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr_die.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_cr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/error.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/gen_allocdefs.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/error.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_read.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/error_str.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/seek.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/readclose.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/readclose.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_catch.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_put.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trysgact.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryflock.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/direntry.hl
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/iopause.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/prot.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/coe.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait_nohang.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/coe.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_sub.c

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/prot.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/alloc_re.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_cat.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/seek_set.c
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +sigaction */
```

```
#define HASSIGACTION 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: +sigprocmask */
```

```
#define HASSIGPROCMASK 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h2
```

No license file was found, but licenses were detected in source scan.

```
/* Public domain. */
```

```
/* sysdep: -mkfifo */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkffo.h1
```

1.118 e2fsprogs 1.46.2-2

1.118.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2. This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

This is a Makefile stub which handles the creation of BSD shared # libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

(cd ..; \$(LN) \$(LINK_BUILD_FLAGS) \

`echo \$(my_dir) | sed -e 's;lib/;;'"/\$(BSD_LIB) \$(BSD_LIB))

install-shlibs install:: \$(BSD_LIB)

@echo " INSTALL_PROGRAM \$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)"

@\$(INSTALL_PROGRAM) \$(BSD_LIB) \

\$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Follows the GNU license.

Gadi Oxman, August 1995

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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for details type `show w'.
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Theodore Ts'o
23-June-2007

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```
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1.119 jamon 2.82

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1.130 netbase 6.3

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1.131 tdb 1.46.2

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1.132 httpparser 2.9.4

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1.134 jcmtturner-aescts 1.0.1

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1.135 jcmtturner-rpc 1.1.0

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1.136 klauspost-compress 1.9.8

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1.140 queue 1.1.0

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1.143 cyberdelia-go-metrics-graphite 0.0.0-20151204233354-7e54b5c2aa6e

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1.144 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.145 x-crypto 0.0.0-20210921155107-089bfa567519

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1.146 hashicorp-cronexpr 1.1.1

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1.149 gopkg.in-yaml 2.2.8

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1.150 hcl 1.0.0

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLEntityDescription.java

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jar/org/apache/xerces/parsers/XML11Configurable.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSLoaderImpl.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/util/ByteListImpl.java

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jar/org/apache/xerces/impl/ExternalSubsetResolver.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/PSVIElementNSImpl.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/URI.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLEntityManager.java
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jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
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jar/org/apache/xerces/xni/grammars/Grammar.java
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jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
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jar/org/apache/xerces/xni/XMLString.java
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jar/org/apache/xerces/xni/Augmentations.java
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jar/org/apache/xerces/xni/XMLAttributes.java
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jar/org/apache/xerces/util/XMLAttributesImpl.java
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jar/org/apache/xerces/jaxp/JAXPCConstants.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xni/XMLDTDHandler.java
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jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
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jar/org/apache/xerces/impl/io/ASCIIReader.java
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jar/org/apache/xerces/xni/parser/XMLInputSource.java
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jar/org/apache/xerces/xni/parser/XMLComponentManager.java
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jar/org/apache/xerces/impl/XML11NamespaceBinder.java
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jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
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jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
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jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
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jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/identity/Field.java

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- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXLocatorWrapper.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
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- /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
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- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
- *
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- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/xpointer/ShortHandPointer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/impl/xs/util/StringListImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASModelImpl.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDSources.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java
*

/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
*

/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeTextReader.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeHandler.java
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Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/DOMErrorHandlerWrapper.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSModelGroup.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSAttributeUse.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSParticle.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSElementDeclaration.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSIDCDefinition.java
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```
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/events/EventImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
```

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jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/CDATASectionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/Encodings.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/ElementState.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/SerializerFactory.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/LCount.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredNode.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/DTGrammarBucket.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/Serializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/LineSeparator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/Op.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/CachingParserPool.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeepNodeListImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDParse.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CommentImpl.java
*

/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/Printer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/MessageFormatter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/TextSerializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/HTMLdtd.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/util/Base64.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/ShadowedSymbolTable.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/CharacterDataImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLStringBuffer.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/ParseException.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DeferredAttrImpl.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java
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jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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jar/org/apache/html/dom/SecuritySupport.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xml/serialize/SecuritySupport.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/Constants.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMLLeaf.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLLeaf.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDDProcessor.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
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jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java
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jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DurationDV.java
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jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
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jar/org/apache/xerces/parsers/DOMParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java
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jar/org/apache/xerces/impl/validation/ConfigurableValidationState.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/JAXPNamespacedContextWrapper.java

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jar/org/apache/xerces/dom3/as/ASObject.java

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jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java

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jar/org/apache/xerces/dom3/as/ASObjectList.java

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jar/org/apache/xerces/dom3/as/DocumentAS.java

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jar/org/apache/xerces/dom3/as/DocumentEditAS.java

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jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java

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jar/org/apache/xerces/dom3/as/DOMASException.java

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jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java

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jar/org/apache/xerces/dom3/as/ASModel.java

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jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java

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jar/org/apache/xerces/dom3/as/DOMASWriter.java

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jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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jar/org/apache/xerces/impl/dtd/XMLDTDProcessor.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/DTDGrammar.java
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jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DOMNormalizer.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/EncodingInfo.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/SymbolTable.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/AttributeMap.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/XPath.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
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Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
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Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDLoader.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java

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Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java

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Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMNodeFactory.java

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/**

* DOM Level 3 LS CR - Experimental.

* Create a new `LSParser`. The newly constructed parser may

* then be configured by means of its `DOMConfiguration`

* object, and used to parse documents by means of its `parse`

* method.

* @param mode The

`mode` argument is either

* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if

* `mode` is `MODE_SYNCHRONOUS` then the

* `LSParser` that is created will operate in synchronous

* mode, if it's `MODE_ASYNCHRONOUS` then the

* `LSParser` that is created will operate in asynchronous

* mode.

* @param schemaType An absolute URI representing the type of the schema

* language used during the load of a `Document` using the

* newly created `LSParser`. Note that no lexical checking

* is done on the absolute URI. In order to create a

* `LSParser` for any kind of schema types (i.e. the

* `LSParser` will be free to use any schema found), use the value

* `null`.

* **Note:** For W3C XML Schema [<http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>] XML Schema Part 1

* , applications must use the value

* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [<http://www.w3.org/TR/2000/REC-xml-20001006/>] XML 1.0

* applications must use the value

* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages

* are outside the scope of the W3C and therefore should recommend an

* absolute URI in order to use this method.

* @return The newly created `LSParser` object. This

- * `LSParser` is either synchronous or asynchronous
- * depending on the value of the `mode` argument.
- * **Note:** By default, the newly created `LSParser`
- * does not contain a `DOMErrorHandler`, i.e. the value of
- * the "<http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler>" configuration parameter is `null`. However, implementations
- * may provide a default error handler at creation time. In that case,
- * the initial value of the `"error-handler"` configuration
- * parameter on the new created `LSParser` contains a
- * reference to the default error handler.
- * @exception DOMException
- * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
- * not supported.

Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java

*

/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java

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```
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLAElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLFieldsetElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLImgElement.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLBrElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLCollectionImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLDocument.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLMetaElement.java
```

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPostfieldElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLHeadElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLCardElement.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLNoopElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPrevElement.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLRefreshElement.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLInputElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLBuilder.java
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jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
```

jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/parsers/DTDCConfiguration.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java  
*  
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/util/ErrorHandlerWrapper.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/util/DOMEntityResolverWrapper.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/xni/XMLLocator.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/impl/xs/models/CMBuilder.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-  
jar/org/apache/xerces/parsers/NonValidatingConfiguration.java  
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
```


jar/org/apache/xerces/parsers/BasicParserConfiguration.java

*

/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/dv/SchemaDVFactory.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/opti/DefaultText.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/opti/TextImpl.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/ElementPSVI.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/PSVIProvider.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/XSException.java

*

/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/StringList.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ShortList.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/XSObject.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/util/SecurityManager.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/XSNamespaceItemList.java

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/xs/ItemPSVI.java

```
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSImplementation.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSAnnotation.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSLoader.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSModel.java
*
```

```
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/LSInputList.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/XSTypeDefinition.java
```

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```
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/ByteList.java
```

```
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDatetime.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLErrorCode.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/HTTPInputSource.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLCatalogResolver.java
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```
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
```

jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/ObjectFactory.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/ObjectFactory.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DOMConfigurationImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XML11Char.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/DocumentFragmentImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/HTMLSerializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLScanner.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLErrorReporter.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/XMLChar.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
*
/opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLEntityScanner.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/XHTMLSerializer.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/parsers/XMLParser.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java

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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle Attribution\". During validation against this schema, ambiguity would be created for those two particles.

Found in path(s):

* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

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/**

* used to check the 3 constraints against each complex type

* (should be each model group):

* Unique Particle Attribution, Particle Derivation (Restriction),

* Element Declarations Consistent.

*/

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java

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- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
- *
- /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
- * /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java

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* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1219051082_1635183526.32/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java

1.152 libnsI 1.3.0-2

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1.153 lz4 1.9.3-2

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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1.154 libpkit 0.23.22-1

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Upstream-Name: p11-kit

Source: <https://p11-glue.github.io/p11-glue/p11-kit.html>

Files: *

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Comment: make_private_security_descriptor() and the helper functions were

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1.155 libsemanage-common 3.1-1

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<one

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```
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1.159 man-pages 5.10-1

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```
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/rpmatch.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/program_invocation_name.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/error.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/offsetof.3
*
/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/backtrace.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getsubopt.3
```

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```
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```
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getnameinfo.3
```

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```
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version.
```

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/rpc.5

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getrpcent.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getrpcport.3

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5.10/man2/ioctl_getfsmap.2

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/charmap.5

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/locale.5

*

/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/eventfd.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/timerfd_create.2
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.b\" and again on 960413 and 980804 and 981223.'
.b\" Modified 1998-12-11 by Jamie Lokier <jamie@imbolc.ucc.ie>'
.b\" Applied correction by Christian Ehrhardt - aeb, 990712'
.b\" Modified 2002-04-23 by Michael Kerrisk <mtk.manpages@gmail.com>'
.b\"\\tAdded
note on F_SETFL and O_DIRECT'
.b\"\\tComplete rewrite + expansion of material on file locking'
.b\"\\tIncorporated description of F_NOTIFY, drawing on'
.b\"\\t\\tStephen Rothwell's notes in Documentation/dnotify.txt.'
.b\"\\t\\tAdded description of F_SETLEASE and F_GETLEASE'

.b\" Corrected and polished, aeb, 020527.'

.b\" Modified 2004-03-03 by Michael Kerrisk <mtk.manpages@gmail.com>'

.b\" Modified description of file leases: fixed some errors of detail'

.b\" Replaced the term "lease contestant" by "lease breaker"'

.b\" Modified, 27 May 2004, Michael Kerrisk <mtk.manpages@gmail.com>'

.b\" Added notes on capability requirements'

.b\" Modified 2004-12-08, added O_NOATIME after note from Martin Pool'

.b\" 2004-12-10, mtk, noted F_GETOWN bug after suggestion from aeb.'

.b\" 2005-04-08 Jamie Lokier <jamie@shareable.org>, mtk'

.b\" \tDescribed behavior of F_SETOWN/F_SETSIG in'

.b\" \tmultithreaded processes, and generally cleaned'

.b\" \tup the discussion of'

F_SETOWN.'

.b\" 2005-05-20, Johannes Nicolai <johannes.nicolai@hpi.uni-potsdam.de>,'

.b\" \tmtk: Noted F_SETOWN bug for socket file descriptor in Linux 2.4'

.b\" \tand earlier. Added text on permissions required to send signal.'

.b\" 2009-09-30, Michael Kerrisk'

.b\" Note obsolete F_SETOWN behavior with threads.'

.b\" Document F_SETOWN_EX and F_GETOWN_EX'

.b\" 2010-06-17, Michael Kerrisk'

.b\" \tDocument F_SETPIPE_SZ and F_GETPIPE_SZ.'

.b\" 2014-07-08, David Herrmann <dh.herrmann@gmail.com>'

.b\" Document F_ADD_SEALS and F_GET_SEALS'

.b\" 2017-06-26, Jens Axboe <axboe@kernel.dk>'

.b\" Document F_{GET,SET}_RW_HINT and F_{GET,SET}_FILE_RW_HINT'

.b\"'

.b\" or'

.b\" .BR creat (2),'

.b\" (Additional file descriptors referring to the same file'

.b\" may have been obtained by calls to'

.b\" .BR open "(2), " dup "(2), " dup2 "(2), or " fcntl ().)'

.b\" FIXME . Review progress into POSIX'

.b\" <http://austingroupbugs.net/view.php?id=768>'

.b\"'

commit 57b65325fe34ec4c917bc4e555144b4a94d9e1f7'

.b\"'

.b\"'

.b\" commit ef1820f9be27b6ad158f433ab38002ab8131db4d'

.b\"'

.b\" The following appears to be rubbish. It doesn't seem to'

.b\" be true according to the kernel source, and I can write'

.b\" a program that gets a terminal-generated SIGIO even though'

.b\" it is not the foreground process group of the terminal.'

.b\" -- MTK, 8 Apr 05'

.b\"'

.b\" If the file descriptor'

.b\" .I fd'

.b\" refers to a terminal device, then SIGIO'

.b\" signals are sent to the foreground process group of the terminal.'

.b\" The relevant place in the (2.6) kernel source is the'

.b\" '\switch\ in fs/fcntl.c::send_sigio_to_task() -- MTK, Apr 2005'

.b\" send_sigurg()/send_sigurg_to_task() bypasses'

.b\" kill_fasync()/send_sigio()/send_sigio_to_task()'

.b\" to directly call send_group_sig_info()'

.b\"\t-- MTK, Apr 2005 (kernel 2.6.11)'

.b\"''

.b\" The following was true only up until 2.6.11:'

.b\"''

.b\"''

Additionally, passing a nonzero value to'

.b\" .B F_SETSIG'

.b\" changes the signal recipient from a whole process to a specific thread'

.b\" within a process.'

.b\" See the description of'

.b\" .B F_SETOWN'

.b\" for more details.'

.b\" See fs/fcntl.c::send_sigio_to_task() (2.4/2.6) sources -- MTK, Apr 05'

.b\" The following became true in kernel 2.6.10:'

.b\" See the man-pages-2.09 Changelog for further info.'

.b\" The following does seem a poor API-design choice...'

.b\"''

.b\" One or more other seals are typically used with F_SEAL_WRITE'

.b\" because, given a file with the F_SEAL_WRITE seal set, then,'

.b\" while it would no longer be possible to (say) write zeros into'

.b\" the last 100 bytes of a file, it would still be possible'

.b\" to (say) shrink the file by 100 bytes using ftruncate(), and'

.b\" then increase the file size by 100 bytes, which would have'

.b\" the effect of replacing the last hundred bytes by zeros.'

.b\"''

.b\"''

.b\"''

.BR _BSD_SOURCE ,'

.b\" or'

.b\" .PP'

.b\" SVr4 documents additional EIO, ENOLINK and EOVERFLOW error conditions.'

.b\" FIXME . Once glibc adds support, add a note about FTM requirements'

.b\"''

.b\"''

.b\" e.g., Solaris 8 documents this field in fcntl(2), and Irix 6.5'

.b\" documents it in fcntl(5). mtk, May 2007'

.b\" Also, FreeBSD documents it (Apr 2014).'

.b\"''

.b\" Neil Brown: With NFSv3 the failure mode is the reverse. If'

.b\" the server loses contact with a client then any lock stays in place'

.b\" indefinitely ("why can't I read my mail"... I remember it well).'

.b\"''

.b\"/>
.b\" Jeff Layton:'
.b\" Note that this is not a firm timeout. The server runs a job'
.b\" periodically to clean out expired stateful objects, and it's likely'
.b\" that there is some time (maybe even up to another whole lease period)'
.b\" between when the timeout expires and the job actually runs. If the'
.b\" client gets a RENEW in there
within that window, its lease will be'
.b\" renewed and its state preserved.'
.b\"
.b\" commit ef1820f9be27b6ad158f433ab38002ab8131db4d'
.b\" commit f6de7a39c181dfb8a2c534661a53c73afb3081cd'
.b\" FIXME . According to POSIX.1-2001, O_SYNC should also be modifiable'
.b\" via fcntl(2), but currently Linux does not permit this'
.b\" See http://bugzilla.kernel.org/show_bug.cgi?id=5994'
.b\" glibc source: sysdeps/unix/sysv/linux/i386/sysdep.h'
.b\" mtk, Dec 04: some limited testing on alpha and ia64 seems to'
.b\" indicate that ANY negative PGID value will cause F_GETOWN'
.b\" to misinterpret the return as an error. Some other architectures'
.b\" seem to have the same range check as i386.'
.b\"
.b\"
.b\" <http://marc.info/?l=linux-kernel&m=119013491707153&w=2>'
.b\"
.b\" Reconfirmed by Jeff Layton'
.b\" From: Jeff Layton <jlayton@redhat.com>'
.b\" Subject: Re: Status of fcntl() mandatory locking'
.b\" Newsgroups: gmane.linux.file-systems'
.b\"
Date: 2014-04-28 10:07:57 GMT'
.b\" <http://thread.gmane.org/gmane.linux.file-systems/84481/focus=84518>'

Found in path(s):

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.b\" Modified 1995-05-17 by faith@cs.unc.edu'
.b\" Minor changes by aeb and Marty Leisner (leisner@sdsp.mc.xerox.com).'
.b\" Modified 1996-04-13, 1996-07-22 by aeb@cw.nl'
.b\" Modified 2001-12-16 by rwhron@earthlink.net'
.b\" Modified 2002-07-13 by jbelton@shaw.ca'
.b\" Modified 2002-07-22, 2003-05-27, 2004-04-06, 2004-05-25'
.b\" by Michael Kerrisk <mtk.manpages@gmail.com>'
.b\" 2004-11-17,
mtk -- updated notes on /proc/loadavg'
.b\" 2004-12-01, mtk, rtsig-max and rtsig-nr went away in 2.6.8'
.b\" 2004-12-14, mtk, updated 'statm', and fixed error in order of list'
.b\" 2005-05-12, mtk, updated 'stat'
.b\" 2005-07-13, mtk, added /proc/sys/fs/mqueue/*'
.b\" 2005-09-16, mtk, Added /proc/sys/fs/suid_dumpable'
.b\" 2005-09-19, mtk, added /proc/zoneinfo'
.b\" 2005-03-01, mtk, moved /proc/sys/fs/mqueue/* material to mq_overview.7.'
.b\" 2008-06-05, mtk, Added /proc/[pid]/oom_score, /proc/[pid]/oom_adj,'
.b\" /proc/[pid]/limits, /proc/[pid]/mountinfo, /proc/[pid]/mountstats,'
.b\" and /proc/[pid]/fdinfo/*.'
.b\" 2008-06-19, mtk, Documented /proc/[pid]/status.'
.b\" 2008-07-15, mtk, added /proc/config.gz'
.b\"
.b\" FIXME cross check against Documentation/filesystems/proc.txt'
.b\" to see what information could be imported from that file'
.b\" into this file.'
.b\"
.b\"
.b\" commit 0499680a42141d86417a8fbaa8c8db806bea1201'
.b\"

As an additional bonus, since'

.b"\" .IR /proc/[pid]/cmdline'

.b"\" is inaccessible for other users,'

.b"\" poorly written programs passing sensitive information via'

.b"\" program arguments are now protected against local eavesdroppers.'

.b"\" commit 0499680a42141d86417a8fbaa8c8db806bea1201'

.b"\"'

.b"\"'

.b"\" commit 68eb94f16227336a5773b83ecfa8290f1d6b78ce'

.b"\" <https://lwn.net/Articles/28222/>'

.b"\" From: Stephen Smalley <sds@epoch.ncsc.mil>'

.b"\" To:\t LKML and others'

.b"\" Subject: [RFC][PATCH] Process Attribute API for Security Modules'

.b"\" Date: 08 Apr 2003 16:17:52 -0400'

.b"\"'

.b"\"http://www.nsa.gov/research/_files/selinux/papers/module/x362.shtml'

.b"\"'

.b"\" commit 4eb582cf1fbd7b9e5f466e3718a59c957e75254e'

.b"\" commit b68101a1e8f0263dbc7b8375d2a7c57c6216fb76'

.b"\" commit d410fa4ef99112386de5f218dd7df7b4fca910b4'

.b"\" commit 42c3e03ef6b298813557cdb997bd6db619cd65a2'

.b"\" commit 5091faa449ee0b7d73bc296a93bca9540fc51d0a'

.b"\"'

Precisely: Linux 2.6.0-test7'

.b"\" commit b813e931b4c8235bb42e301096ea97dbdee3e8fe (2.6.22)'

.b"\" commit 398499d5f3613c47f2143b8c54a04efb5d7a6da9 (2.6.32)'

.b"\" commit 040fa02077de01c7e08fa75be6125e4ca5636011 (3.11)'

.b"\"'

.b"\" "Clears page referenced bits shown in smaps output"

.b"\" write-only, writable only by the owner of the process'

.b"\" Internally: CLEAR_REFS_ALL'

.b"\" Internally: CLEAR_REFS_ANON'

.b"\" Internally: CLEAR_REFS_MAPPED'

.b"\" Internally: CLEAR_REFS_SOFT_DIRTY'

.b"\" Internally: CLEAR_REFS_MM_HIWATER_RSS'

.b"\" In 2.3.26, this also used to be true if the process was swapped out.'

.b"\" commit 4614a696bd1c3a9af3a08f0e5874830a85b889d4'

.b"\" and/proc/[pid]/task/[tid]/cpuset'

.b"\" The following was still true as at kernel 2.6.13'

.b"\" The following was still true as at kernel 2.6.13'

.b"\"The following was still true as at kernel 2.6.13'

.b"\" The following is not true in my tests (MTK):'

.b"\" Note that this will not work for'

.b"\"'

programs that seek on their files, as the files in the fd directory'

.b"\" are not seekable.'

.b"\" commit 1117f72ea0217ba0cc19f05adbbd8b9a397f5ab7'

.b"\" commit 49d063cb353265c3af701bab215ac438ca7df36d'

.b\" commit cbac5542d48127b546a23d816380a7926eee1c25'

.b\" commit 138d22b58696c506799f8de759804083ff9effae'

.b\" commit 138d22b58696c506799f8de759804083ff9effae'

.b\" commit af9c4957cf212ad9cf0bee34c95cb11de5426e85'

.b\" commit 7c3ab7381e79dfc7db14a67c6f4f3285664e1ec2'

.b\" commit 3036e7b490bf7878c6dae952eec5fb87b1106589'

.b\" FIXME Describe /proc/[pid]/loginuid'

.b\" Added in 2.6.11; updating requires CAP_AUDIT_CONTROL'

.b\" CONFIG_AUDITSYSCALL'

.b\" commit 640708a2cff7f81e246243b0073c66e6ece7e53e'

.b\" commit bdb4d100afe9818aebd1d98ced575c5ef143456c'

.b\" commit b76437579d1344b612cf1851ae610c636cec7db0 (added)'

.b\" commit 65376df582174ffcec9e6471bf5b0dd79ba05e4a (removed)'

.b\" This info adapted from Documentation/filesystems/proc.txt'

.b\"

commit 2d4d4864ac08caff5c204a752bd004eed4f08760'

.b\" Miklos Szeredi, Nov 2017: The hidden one is the initramfs, I believe'

.b\" mtk: In the initial mount namespace, this hidden ID has the value 0'

.b\" See commit 6b4e306aa3dc94a0545eb9279475b1ab6209a31f'

.b\" See mm/oom_kill.c::badness() in pre 2.6.36 sources'

.b\" See mm/oom_kill.c::oom_badness() after 2.6.36'

.b\" commit a63d83f427fbce97a6cea0db2e64b0eb8435cd10'

.b\" See mm/oom_kill.c::badness() in pre 2.6.36 sources'

.b\" See mm/oom_kill.c::oom_badness() after 2.6.36'

.b\" commit a63d83f427fbce97a6cea0db2e64b0eb8435cd10'

.b\" More precisely, if it has CAP_SYS_ADMIN or (pre 2.6.36) CAP_SYS_RESOURCE'

.b\" More precisely, if it has CAP_SYS_RAWIO'

.b\" Text taken from 3.7 Documentation/filesystems/proc.txt'

.b\" Not quite true; see commit 541c237c0923f567c9c4cabb8a81635baadc713f'

.b\" commit 77bb499bb60f4b79cca7d139c8041662860fcf87'

.b\" commit 83b4b0bb635eee2b8e075062e4e008d1bc110ed7'

.b\"

commit 478307230810d7e2a753ed220db9066dfdf88718'

.b\" The following was still true as at kernel 2.6.13'

.b\" FIXME Describe /proc/[pid]/projid_map'

.b\" Added in 3.7'

.b\" commit f76d207a66c3a53defea67e7d36c3eb1b7d6d61d'

.b\" FIXME Describe /proc/[pid]/sessionid'

.b\" commit 1e0bd7550ea9cf474b1ad4c6ff5729a507f75fdc'

.b\" CONFIG_AUDITSYSCALL'

.b\" Added in 2.6.25; read-only; only readable by real UID'

.b\"

.b\" FIXME Describe /proc/[pid]/sched'

.b\" Added in 2.6.23'

.b\" CONFIG_SCHED_DEBUG, and additional fields if CONFIG_SCHEDSTATS'

.b\" Displays various scheduling parameters'

.b\" This file can be written, to reset stats'

.b\" The set of fields exposed by this file have changed'

.b"\"t significantly over time.'

.b"\" commit 43ae34cb4cd650d1eb4460a8253a8e747ba052ac'

.b"\"

.b"\" FIXME Describe /proc/[pid]/schedstats and'

.b"\" /proc/[pid]/task/[tid]/schedstats'

.b"\" Added

in 2.6.9'

.b"\" CONFIG_SCHEDSTATS'

.b"\" 2ec220e27f5040aec1e88901c1b6ea3d135787ad'

.b"\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'

.b"\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'

.b"\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'

.b"\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'

.b"\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'

.b"\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'

.b"\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'

.b"\" commit f2530dc71cf0822f90bb63ea4600caaef33a66bb'

.b"\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'

.b"\" This field and following, up to and including wchan added 0.99.1'

.b"\" And back in kernel 1.2 days things were different again.'

.b"\" Back in kernel 1.2 days things were different.'

.b"\" .TP'

.b"\" \\fccounter\\fP %ld'

.b"\" The current maximum size in jiffies of the process's next timeslice,'

.b"\" or what is currently left of its current timeslice, if it is the'

.b"\" currently running

process.'

.b"\" .TP'

.b"\" \\ftimeout\\fP %u'

.b"\" The time in jiffies of the process's next timeout.'

.b"\" timeout was removed sometime around 2.1/2.2'

.b"\" nswap was added in 2.0'

.b"\" cnsnap was added in 2.0'

.b"\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'

.b"\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'

.b"\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'

.b"\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'

.b"\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'

.b"\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'

.b"\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'

.b"\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'

.b"\" (not including libs; broken, includes data segment)'

.b"\" (including libs; broken, includes library text)'

.b"\" See SPLIT_RSS_COUNTING in the kernel.'

.b"\" Inaccuracy is bounded by TASK_RSS_EVENTS_THRESH.'

.b"\" commit e4bc33245124db69b74a6d853ac76c2976f472d5'

.b"\" commit bc3e53f682d93df677dbd5006a404722b3adfe18'

.b"\"

commit bf9683d6990589390b5178dafa8fd06808869293'
.b\" commit bf9683d6990589390b5178dafa8fd06808869293'
.b\" commit bf9683d6990589390b5178dafa8fd06808869293'
.b\" commit dc6c9a35b66b520cf67e05d8ca60ebecad3b0479'
.b\" commit b084d4353ff99d824d3bc5a5c2c22c70b1fba722'
.b\" commit 5d317b2b6536592a9b51fe65faed43d65ca9158e'
.b\" commit c643401218be0f4ab3522e0c0a63016596d6e9ca'
.b\" commit af884cd4a5ae62fcf5e321fecf0ec1014730353d'
.b\" commit 2f4b3bf6b2318cfaa177ec5a802f4d8d6afbd816'
.b\" commit fae1fa0fc6cca8beee3ab8ed71d54f9a78fa3f64'
.b\" commit ebc67341fee34061430f3367f2e507e52ee051b'
.b\" Precisely: Linux 2.6.0-test6'
.b\" in particular: \"children\" :/'
.b\" The following was still true as at kernel 2.6.13'
.b\" commit 818411616baf46ceba0cff6f05af3a9b294734f7'
.b\" see comments in get_children_pid() in fs/proc/array.c'
.b\" commit 2e13ba54a2682eea24918b87ad3edf70c2cf085b'
.b\" commit 5ed67f05f66c41e39880a6d61358438a25f9fee5'
.b\" commit 48f6a7a511ef8823dff39afee0320092d43a8a0'
.b\"
commit da8b44d5a9f8bf26da637b7336508ca534d6b319'
.b\" commit 5de23d435e88996b1efe0e2cebe242074ce67c9e'
.b\" commit 7abbaf94049914f074306d960b0f968ffe52e59f'
.b\" commit 3b72c814a8e8cd638e1ba0da4dfce501e9dff5af'
.b\" FIXME Much more needs to be said about /proc/fs'
.b\"
.b\" commit 80ae2fdceba8313b0433f899bdd9c6c463291a17'
.b\" KPF_BALLOON: commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b\" KPF_ZERO_PAGE: commit 56873f43abdcd574b25105867a990f067747b2f4'
.b\" KPF_IDLE: commit f074a8f49eb87cde95ac9d040ad5e7ea4f029738'
.b\" commit ad3bdefe877afb47480418fdb05ecd42842de65e'
.b\" commit e07a4b9217d1e97d2f3a62b6b070efdc61212110'
.b\" commit 9d5b86ac13c573795525ecac6ed2db39ab23e2a8'
.b\" commit d67fd44f697dff293d7cdc29af929241b669affe'
.b\" It looks like this only ever did something back in 1.0 days'
.b\" commit a5ad88ce8c7fae7ddc72ee49a11a75aa837788e0'
.b\" commit a5ad88ce8c7fae7ddc72ee49a11a75aa837788e0'
.b\"
commit 7225e75144b9718cbbe1820d9c011c809d5773fd'
.b\" commit e9720acd728a46cb40daa52c99a979f7c4ff195c'
.b\" .TP'
.b\" .I /proc/net/ipx'
.b\" No information.'
.b\" .TP'
.b\" .I /proc/net/ipx_route'
.b\" No information.'
.b\" .TP'
.b\" .I /proc/net/route'

.b" No information, but looks similar to'

.b" .BR route (8).'

.b" FIXME Document /proc/sched_debug (since Linux 2.6.23)'

.b" See also /proc/[pid]/sched'

.b" 1024 on Alpha and ia64'

.b" FIXME . Actually, the following info about the /proc/stat \cpu\ field'

.b" does not seem to be quite right (at least in 2.6.12 or 3.6):'

.b" the idle time in /proc/uptime does not quite match this value'

.b" See kernel commit 9c240d757658a3ae9968dd309e674c61f07c7f48'

.b" Precisely: Linux 2.6.0-test4'

.b" Precisely: Linux 2.6.0-test4'

.b" See Changelog entry for 5e84cfde51cf303d368fcb48f22059f37b3872de'

.b" commit ce0e7b28fb75cb003cfc8d0238613aaf1c55e797'

.b" FIXME . The following is
not the full picture for the \intr\ of'

.b" /proc/stat on 2.6:'

.b" commit d3d64df21d3d0de675a0d3ffa7c10514f3644b30'

.b" On some systems, it is not present.'

.b" looks like this is unused in kernels 2.2 to 2.6'

.b" looks like this is unused in kernels 2.2 to 2.6'

.b" This can be slightly more than'

.b" .I inode\|-max'

.b" because Linux allocates them one page full at a time.'

.b" commit d29216842a85c7970c536108e093963f02714498'

.b" commit 9cfe015aa424b3c003baba3841a60dd9b5ad319b'

.b" commit 800179c9b8a1e796e441674776d11cd4c05d61d7'

.b" commit 800179c9b8a1e796e441674776d11cd4c05d61d7'

.b" The following is based on text from Documentation/sysctl/kernel.txt'

.b" In kernel source: SUID_DUMP_DISABLE'

.b" In kernel source: SUID_DUMP_USER'

.b" In kernel source: SUID_DUMP_ROOT'

.b" 9520628e8ceb69fa9a4aee6b57f22675d9e1b709'

.b" 54b501992dd2a839e94e76aa392c392b55080ce8'

.b" commit 9eefe520c814f6f62c5d36a2ddcd3fb99dfdb30e (introduces
feature)'

.b" commit 0050ee059f7fc86b1df2527aaa14ed5dc72f9973 (rendered redundant)'

.b" FIXME Must document the 3.19 \msgmni\ changes.'

.b" commit 620f6e8e855d6d447688a5f67a4e176944a084e8'

.b" Removed in commit 87f504e5c78b910b0c1d6ffb89bc95e492322c84 (tglx/history.git)'

.b" removed in commit 1b483a6a7b2998e9c98ad985d7494b9b725bd228, before 2.6.28'

.b" 455cd5ab305c90ffc422dd2e0fb634730942b257'

.b" commit 411f05f123cbd7f8aa1edcae86970755a6e2a9d9'

.b" commit 620f6e8e855d6d447688a5f67a4e176944a084e8'

.b" 3d43321b7015387cfebbe26436d0e9d299162ea1'

.b" From Documentation/sysctl/kernel.txt'

.b" Prior to 2.6.10, pid_max could also be raised above 32768 on 32-bit'

.b" platforms, but this broke /proc/[pid]'

.b" See <http://marc.theaimsgroup.com/?l=linux-kernel&m=109513010926152&w=2>

.b\" \" FIXME Document /proc/sys/kernel/pty/reserve'
.b\" \" New in Linux 3.3'
.b\" \" commit e9aba5158a80098447ff207a452a3418ae7ee386'
.b\" \" Some further details can
be found in Documentation/sysctl/kernel.txt'
.b\" \" commit c1d171a002942ea2d93b4fbd0c9583c56fce0772'
.b\" \" commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b\" \" commit 5091faa449ee0b7d73bc296a93bca9540fc51d0a'
.b\" \" commit 8e5f1ad116df6b0de65eac458d5e7c318d1c05af'
.b\" \" commit b34a6b1da371ed8af1221459a18c67970f7e3d53'
.b\" \" See also Documentation/sysctl/kernel.txt'
.b\" \" commit f88083005ab319abba5d0b2e4e997558245493c8'
.b\" \" commit 2ca9bb456ada8bcbdc8f77f8fc78207653bbaa92'
.b\" \" commit f4aacea2f5d1a5f7e3154e967d70cf3f711bcd61'
.b\" \" commit 24fe831c17ab8149413874f2fd4e5c8a41fcd294'
.b\" \" FIXME .'
.b\" \" With /proc/sys/kernel/sysctl_writes_strict==1, writes at an'
.b\" \" offset other than 0 do not generate an error. Instead, the'
.b\" \" write() succeeds, but the file is left unmodified.'
.b\" \" This is surprising. The behavior may change in the future.'
.b\" \" See thread.gmane.org/gmane.linux.man/9197'
.b\" \"\t\tFrom: Michael Kerrisk (man-pages <mtk.manpages@...>'
.b\" \"\t\tSubject:
sysctl_writes_strict documentation + an oddity?'
.b\" \"\t\tNewsgroups: gmane.linux.man, gmane.linux.kernel'
.b\" \"\t\tDate: 2015-05-09 08:54:11 GMT'
.b\" \" commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b\" \" The following is based on Documentation/sysctl/kernel.txt'
.b\" \" commit 230633d109e35b0a24277498e773edeb79b4a331'
.b\" \" commit 4eeab4f5580d11bffedc697684b91b0bca0d5009'
.b\" \" The following is from Documentation/filesystems/proc.txt'
.b\" \" The following is based on the text in Documentation/sysctl/vm.txt'
.b\" \" The following is based on the text in Documentation/sysctl/vm.txt'
.b\" \" The following is from Documentation/sysctl/vm.txt'
.b\" \" The following is from Documentation/sysctl/vm.txt'
.b\" \" commit 49f0ce5f92321cdcf741e35f385669a421013cb7'
.b\" \" The following is adapted from Documentation/sysctl/vm.txt'
.b\" \" The following is from Documentation/sysctl/vm.txt'
.b\" \" commit c9b1d0981fcee3d9976d7b7a56e4e0503bc610dd'
.b\" \" cefdca0a86be517bc390fc4541e3674b8e7803b0'
.b\" \"
commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b\" \" commit 0097875bd41528922fb3bb5f348c53f17e00e2fd'
.b\" \" commit 289f480af87e45f7a6de6ba9b4c061c2e259fe98'
.b\" \" commit 82f67cd9fca8c8762c15ba7ed0d5747588c1e221'
.b\" \"\t\tDate: Fri Feb 16 01:28:13 2007 -0800'
.b\" \" Text largely derived from Documentation/timers/timer_stats.txt'
.b\" \" removed in commit dfb4357da6d9df57d583ba64361c9d792b0e0b1'

.b"\" Date: Wed Feb 8 11:26:59 2017 -0800'
.b"\" commit c5c061b8f9726bc2c25e19dec227933a13d1e6b7 deferrable timers'
.b"\" FIXME 2.6.13 seems to have /proc/vmcore implemented; document this'
.b"\" \tSee Documentation/kdump/kdump.txt'
.b"\" \tcommit 666bfddbe8b8fd4fd44617d6c55193d5ac7edb29'
.b"\" \tNeeds CONFIG_VMCORE'
.b"\"
.b"\" FIXME We need explanations for each of the following fields...'
.b"\" commit d23ad42324cc4378132e51f2fc5c9ba6cbe75182'
.b"\" commit 81c0a2bb515fd4daae8cab64352877480792b515'
.b"\" commit 4f98a2fee8acdb4ac84545df98cccecf130f8db'
.b"\"
commit 4f98a2fee8acdb4ac84545df98cccecf130f8db'
.b"\" commit 4f98a2fee8acdb4ac84545df98cccecf130f8db'
.b"\" commit 4f98a2fee8acdb4ac84545df98cccecf130f8db'
.b"\" commit 7b854121eb3e5ba0241882ff939e2c485228c9c5'
.b"\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b"\" commit f3dbd34460ff54962d3e3244b6bcb7f5295356e6'
.b"\" commit 347ce434d57da80fd5809c0c836f206a50999c26'
.b"\" commit 972d1a7b140569084439a81265a0f15b74e924e0'
.b"\" Linux 2.6.0 had nr_slab'
.b"\" commit 972d1a7b140569084439a81265a0f15b74e924e0'
.b"\" commit c6a7f5728a1db45d30df55a01adc130b4ab0327c'
.b"\" commit edf8e2b0038723e5699ab22695ccd62b5542a5c1'
.b"\" commit e129b5c23c2b471d47f1c5d2b8b193fc2034af43'
.b"\" commit 49ea7eb65e7c5060807fb9312b1ad4c3eab82e2c'
.b"\" commit fc3ba692a4d19019387c5acaea63131f9eab05dd'
.b"\" commit a731286de62294b63d8ceb3c5914ac52cc17e690'
.b"\" commit a731286de62294b63d8ceb3c5914ac52cc17e690'
.b"\" commit 4b02108ac1b3354a22b0d83c684797692efdc395'
.b"\"
commit ea941f0e2a8c02ae876cd73deb4e1557248f258c'
.b"\" commit ea941f0e2a8c02ae876cd73deb4e1557248f258c'
.b"\" commit 0d5d823ab4e608ec7b52ac4410de4cb74bbe0edd'
.b"\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_NUMA .'
.b"\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_NUMA .'
.b"\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_NUMA .'
.b"\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_NUMA .'
.b"\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b"\" Present only if the kernel was configured with'

.b"\" .BR CONFIG_NUMA .'
.b"\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_NUMA .'
.b"\" commit
a528910e12ec7ee203095eb1711468a66b9b60b0'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit a528910e12ec7ee203095eb1711468a66b9b60b0'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 449dd6984d0e47643c04c807f609dd56d48d5bcc'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit d1ce749a0db12202b711d1aba1d29e823034648d'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 79da826aee6a10902ef411bc65864bd02102fa83'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 79da826aee6a10902ef411bc65864bd02102fa83'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only
if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Linux 2.6.0 had pgallocc'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HIGHMEM .'
.b"\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b"\" Present only if the kernel was configured with'

```

.b"\" .BR CONFIG_VM_EVENT_COUNTERS
.'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Linux 2.6.0 had pgrefill'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HIGHMEM .'
.b"\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b"\"
Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Formerly there were'
.b"\"  pgsteal_high'
.b"\"  pgsteal_normal'
.b"\"  pgsteal_dma32'
.b"\"  pgsteal_dma'
.b"\" These were split out into pgsteal_kswapd* and pgsteal_direct*'
.b"\" in commit 904249aa68010c8e223263c922fcb840a3f42e4'
.b"\" commit 904249aa68010c8e223263c922fcb840a3f42e4'
.b"\" Linux 2.6.0 had pgsteal'
.b"\" Present only if the kernel was configured with'
.b"\" .\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 904249aa68010c8e223263c922fcb840a3f42e4'
.b"\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 904249aa68010c8e223263c922fcb840a3f42e4'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 904249aa68010c8e223263c922fcb840a3f42e4'
.b"\" Present

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only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HIGHMEM .'
.b"\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HIGHMEM .'
.b"\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS
'
.b"\" Linux 2.6.0 had pgscan'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HIGHMEM .'
.b"\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\"

Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HIGHMEM .'
.b"\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 68243e76ee343d63c6cf76978588a885951e2818'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 24cf72518c79cdcda486ed26074ff8151291cf65'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_NUMA .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit bb3ab596832b920c703d1aea1ce76d69c0f71fb7'
.b"\" Present only if the kernel was configured
with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit bb3ab596832b920c703d1aea1ce76d69c0f71fb7'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 5509a5d27b971a90b940e148ca9ca53312e4fa7a'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 5509a5d27b971a90b940e148ca9ca53312e4fa7a'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_NUMA_BALANCING .'
.b"\" commit 72403b4a0fbdf433c1fe0127e49864658f6f6468'
.b"\"

Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_NUMA_BALANCING .'
.b"\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_NUMA_BALANCING .'
.b"\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_NUMA_BALANCING .'
.b"\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_NUMA_BALANCING'
.b"\" and'
.b"\" .BR CONFIG_NUMA_BALANCING .'
.b"\" commit 5647bc293ab15f66a7b1cda850c5e9d162a6c7c2'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_MIGRATION .'
.b"\"
commit 5647bc293ab15f66a7b1cda850c5e9d162a6c7c2'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_MIGRATION .'
.b"\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b"\" Linux 3.8 dropped compact_blocks_moved, compact_pages_moved, and'
.b"\" compact_pagemigrate_failed'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_COMPACTION .'
.b"\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_COMPACTION .'
.b"\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'

.b"\" .BR CONFIG_COMPACTIION .'
.b"\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f
.b"\" Present only if the kernel was configured with'
.b"\"
.BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_COMPACTIION .'
.b"\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_COMPACTIION .'
.b"\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_COMPACTIION .'
.b"\" commit 3b1163006332302117b1b2acf226d4014ff46525'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_COMPACTIION .'
.b"\" commit 3b1163006332302117b1b2acf226d4014ff46525'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HUGETLB_PAGE .'
.b"\" commit 3b1163006332302117b1b2acf226d4014ff46525'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_HUGETLB_PAGE .'
.b"\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\"
commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b"\" Present only if the kernel was configured with'

```

.b"\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b"\" Linux 3.7 removed unevictable_pgs_mlockfreed'
.b"\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b"\"
Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit d8a8e1f0da3d29d7268b3300c96a059d63901b76'
.b"\"
Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit d8a8e1f0da3d29d7268b3300c96a059d63901b76'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b"\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'
.b"\" .BR CONFIG_MEMORY_BALLOON .'
.b"\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b"\" Present only if the kernel was configured with'
.b"\" .BR CONFIG_VM_EVENT_COUNTERS'
.b"\" and'

```



```
.b\" .BR CONFIG_MEMORY_BALLOON .'
.b\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_VM_EVENT_COUNTERS ,'
.b\" .BR CONFIG_MEMORY_BALLOON ,'
.b\" and'
.b\" .BR CONFIG_BALLOON_COMPACTIION .'
.b\"
commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_TLBFLUSH'
.b\" and'
.b\" .BR CONFIG_SMP .'
.b\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_TLBFLUSH'
.b\" and'
.b\" .BR CONFIG_SMP .'
.b\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_TLBFLUSH .'
.b\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_TLBFLUSH .'
.b\" commit 4f115147ff802267d0aa41e361c5aa5bd933d896'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b\" commit 4f115147ff802267d0aa41e361c5aa5bd933d896'
.b\" Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b\" commit f5f302e21257ebb0c074bbafc37606c26d28cc3d'
.b\"
Present only if the kernel was configured with'
.b\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b\" FIXME more should be said about /proc/zoneinfo'
.b\" .SH ACKNOWLEDGEMENTS'
.b\" The material on /proc/sys/fs and /proc/sys/kernel is closely based on'
.b\" kernel source documentation files written by Rik van Riel.'
```

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/hash.3

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/err.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/rcmd.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/dbopen.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mpool.3

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/session-keyring.7

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/user-keyring.7

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- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/fifo.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/raw.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/ipv6.7
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getpw.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/ioctl_userfaultfd.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/services.5

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ulimit.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/personality.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/random_r.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getpwent.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sigwaitinfo.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/clock_nanosleep.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/mq_overview.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_cleanup_push.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/toascii.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/mq_getsetattr.2
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/cpuid.4
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/rand.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getpwnam.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/usleep.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sysv_signal.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getgrouplist.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/gethostbyname.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/opendir.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/write.2
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sigaltstack.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_init.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strxfrm.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strdup.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/clock_getcpuclockid.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ldexp.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/signal.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/readdir_r.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/gethostname.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/shm_overview.7
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 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/open.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/vmsplice.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/unlink.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/mount_namespaces.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/tmpfs.5
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/asin.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/euidaccess.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/rename.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/_exit.2
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/div.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/hier.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/chroot.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mq_close.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/mbind.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/gsignal.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/pty.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/sigevent.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getgid.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/wait.2
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/bstring.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sendmmsg.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fpurge.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_destroy.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strfry.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/semop.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fpathconf.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/termio.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/group_member.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_testcancel.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strtoul.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/setlocale.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/exp10.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/qsort.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/inode.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_getvalue.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_setschedprio.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setstack.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strerror.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ilogb.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man2/getpagesize.2

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getresuid.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/tan.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getw.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/execve.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/log10.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man3/getrpercent.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getrlimit.2
- *
- /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/membarrier.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/seekdir.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_post.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man3/pthread_setconcurrency.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man8/sln.8
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/full.4
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man2/open_by_handle_at.2

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sleep.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man3/pthread_atfork.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/initrd.4
- *
- /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/memmove.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mallinfo.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/basename.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/libc.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/futimes.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/splICE.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/closedir.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man3/pthread_spin_init.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/fsync.2
- *
- /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sigset.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/setfsgid.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ecvt.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man3/pthread_attr_setschedpolicy.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/seteuid.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man3/pthread_join.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/mmap.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/memchr.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getgrnam.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getuid.2
- *

/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_equal.3
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sigreturn.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/select.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/uselocale.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/udplite.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/stime.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/resolver.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/setgid.2
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/duplocale.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fabs.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/difftime.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/msync.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/execveat.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/gcvt.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strtok.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/siginterrupt.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/close.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/lseek64.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_create.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/setresuid.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/pivot_root.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/bsd_signal.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ecvt_r.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/mincore.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/pause.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/index.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/keyctl.2
 *
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getprotoent.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man1/locale.1
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/profil.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getcontext.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/numa.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mq_notify.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/catopen.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/vfork.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sysinfo.2
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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/nextup.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/exit_group.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/remainder.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/bcopy.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/ipc_namespaces.7
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/sysfs.5
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/units.7
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/CPU_SET.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sigprocmask.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/canonicalize_file_name.3
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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/lrint.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/rewinddir.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/ustat.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setsigmask_np.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/capabilities.7
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/realpath.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/fork.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/clock.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/locale.7
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/putpwent.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/malloc_usable_size.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/stat.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/scalbn.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sigsetops.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strspn.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_mutexattr_init.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getaddrinfo.3
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getusershell.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/inet_net_pton.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getnetent.3
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5.10/man3/unlocked_stdio.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setinheritsched.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mcheck.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/glob.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/symlink.2
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/shmget.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/time.7
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/posix_spawn.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strsep.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/pipe.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/lseek.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/regex.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/abs.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/dirfd.3
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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/end.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/posix_openpt.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/acosh.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/umount.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/link.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/syslog.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getgroups.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/swapon.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pow10.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/swab.3
*
/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sync.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/restart_syscall.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/dladdr.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/erfc.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getcwd.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getfsent.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/acos.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setdetachstate.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/qecvt.3
*
/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/setenv.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_exit.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/cbrt.3
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fmod.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/remap_file_pages.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setaffinity_np.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_sigmask.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/flockfile.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/matherr.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/alloc_hugepages.2
- *
- /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/asprintf.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/isfdtype.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/intro.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/msgop.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strptime.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/tmpfile.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/tzset.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mq_unlink.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man1/intro.1
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- /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/intro.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sched_setscheduler.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/sysvipc.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/delete_module.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/atanh.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getdate.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/hypot.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sync_file_range.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getservent_r.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/posix_fallocate.3
- *
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- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/INFINITY.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getauxval.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ftok.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setscope.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/tcgetsid.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-

5.10/man7/namespaces.7
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/signal.7
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/cosh.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/readdir.3
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/readv.2
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/rtdl-audit.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/setuid.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ether_aton.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/newlocale.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fcloseall.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_close.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/rt_sigqueueinfo.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strchr.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/tmpnam.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fopencookie.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/kexec_load.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/s390_guarded_storage.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/tee.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/atoi.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getdomainname.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/lsearch.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strsignal.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strftime.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sysconf.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/tempnam.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pow.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/pidfd_getfd.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sin.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sqrt.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strcoll.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/malloc_trim.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/address_families.7

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/drand48.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_unlink.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strcasecmp.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getutmp.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mq_open.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getline.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/putenv.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/slabinfo.5

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/isatty.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fexecve.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getdirentries.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strcat.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_cleanup_push_defer_np.3

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/arch_prctl.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/lround.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/math_error.7

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/kill.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/init_module.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/semctl.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/cgroup_namespaces.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/msgget.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strncpy.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_rwlockattr_setkind_np.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/access.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/syslog.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/prctl.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/reboot.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/makedev.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/readahead.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/dl_iterate_phdr.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strverscmp.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sgetmask.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/network_namespaces.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/seccomp.2
 *
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/memcpy.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/malloc_info.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/msgctl.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_detach.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_tryjoin_np.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getnetent_r.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/man.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/wait4.2
 *
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/st.4
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/setup.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/log.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_setaffinity_np.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/malloc.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/pkeys.7

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_open.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_wait.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getaddrinfo_a.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mkfifo.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/utimensat.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/round.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/bcmp.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/set_mempolicy.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/chown.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/gettimeofday.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/process_vm_readv.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/malloc_stats.3
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getmntent.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/time_namespaces.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/frexp.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_setname_np.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/adjtime.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/migrate_pages.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_getattr_default_np.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/utime.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/gettid.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_mutexattr_getpshared.3
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 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/sem_init.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/undocumented.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mkstemp.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/trunc.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_mutexattr_setrobust.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/uname.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/mmap.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/timer_settime.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/stpcpy.3
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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/assert_perror.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/expm1.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/raise.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/random.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/suffixes.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/modf.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/uselib.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getdents.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_attr_setschedparam.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/man-pages.7

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/chmod.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/fnmatch.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/mq_send.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/drand48_r.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/asin.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/readdir.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_cancel.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/timer_getoverrun.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ctermid.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_yield.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/acct.5
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/credentials.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/ioctl_iflags.2
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/strpbrk.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/socketmark.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getdtablesize.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/vsock.7
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_kill_other_threads_np.3

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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/getenv.3

- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/gets.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/dysize.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/log.2.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/pthread_setcancelstate.3
- * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/recvmmsg.2

No license file was found, but licenses were detected in source scan.

.\ " Distributed under GPL

Found in path(s):

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/xcrypt.3

No license file was found, but licenses were detected in source scan.

==== Changes in man-pages-2.00 =====

Released: 2004-12-16

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Various pages

Fabian Kreutz

Many math pages had their synopses compressed, as per suggestion

from Fabian Kreutz.

Various pages

Fabian Kreutz / aeb

Many minor content and formatting bug fixes were made to the math pages, following suggestions from Fabian Kreutz (who recently translated many of the 1.70 math pages into German) and Andries Brouwer.

Various pages

mtk

For consistency, all instances of "super-user" were changed to the more common "superuser".

Various pages

Vasya Pupkin / mtk

After a note from Vasya Pupkin, I added <errno.h> to the SYNOPSIS of several Section 2 pages using the _syscallN() macros.

In addition:

-- erroneous semicolons at the end of _syscallN() were removed on various pages.

--

types such as "uint" in syscallN() declarations were changed to "unsigned int", etc.

-- various other minor breakages in the synopses were fixed.

The affected pages are:

getdents.2
gettid.2
llseek.2
mmap2.2
modify_ldt.2
pivot_root.2
quotactl.2
readdir.2
sysctl.2
syslog.2
tkill.2

Typographical or grammatical errors have been corrected in several other places.

Changes to individual pages

bind.2

Florian Weimer

Added 'const' to declaration of 'my_addr' in prototype.
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=239762>.

fcntl.2

Martin Pool

Added O_NOATIME to list of flags that can be changed via F_SETFL.

mtk/aeb

Noted F_GETOWN bug after suggestion from aeb.

See also:

<http://marc.theaimsgroup.com/?l=linux-kernel&m=108380640603164&w=2>

getrlimit.2

mtk

Material on getrusage.2 has been separated out into its own page.
Rewrote discussion on RLIMIT_MEMLOCK to incorporate kernel 2.6.9 changes.
Added note on RLIMIT_CPU error in older kernels.
Added RLIMIT_SIGPENDING.
Also made a few other minor changes.

getrusage.2

mtk

This page is new(ish) -- it was created by splitting
getrlimit.2.

Repaired note on SIGCHLD behavior to note that the
POSIX non-conformance has been fixed in 2.6.9.

kill.2

Modified after suggestion from Emmanuel Colbus

Changed wording of sentence under NOTES describing
when signals can be sent to init(1).

mlock.2

munlock.2

mlockall.2

munlockall.2

These have been consolidated into a single mlock.2 page.
In the process, much duplication was eliminated
and new information was added about RLIMIT_MEMLOCK
and the changes

in memory locking in kernel 2.6.9,

mmap.2

mtk

Added cross-ref to setrlimit(2) concerning memory locking limits.

Eric Estievenart

Note that MAP_FIXED replaces existing mappings

msgctl.2

mtk

Substantial language and formatting clean-ups.

Added msqid_ds and ipc_perm structure definitions.

msgget.2

mtk

Substantial language and formatting clean-ups.

Added notes on /proc files.

msgop.2

mtk

Substantial language and formatting clean-ups.

Added notes on /proc files.

open.2

Martin Pool

Added O_NOATIME (new in Linux 2.6.8)

mtk

Reordered list of 'flags' description alphabetically

personality.2

2004-11-03 applied patch from Martin Schulze

semctl.2

mtk

Substantial language and formatting clean-ups.

Rewrote semun text.

Added semid_ds and ipc_perm structure definitions.

semget.2

mtk

Substantial language and formatting clean-ups.

Added

notes on /proc files.

Rewrote BUGS note about semget()'s failure to initialize semaphore values.

semop.2

mtk

Substantial language and formatting clean-ups.

Added notes on /proc files.

shmctl.2

mtk

Substantial language and formatting clean-ups.
Updated shmid_ds structure definitions.
Added information on SHM_DEST and SHM_LOCKED flags.
Noted that CAP_IPC_LOCK is not required for SHM_UNLOCK since kernel 2.6.9.
Added notes on 2.6.9 RLIMIT_MEMLOCK changes.
Added RLIMIT_SIGPENDING (new in Linux 2.6.8)

shmget.2

mtk

Substantial language and formatting clean-ups.
Added notes on /proc files.

shmop.2

mtk

Substantial language and formatting clean-ups.
Changed wording and placement of sentence regarding attachment of segments marked for destruction.

sigaction.2

mtk

Added mention of SIGCONT under SA_NOCLDSTOP.
Added SA_NOCLDWAIT.
Updated discussion for POSIX.1-2001 and SIGCHLD and sa_flags.
Noted that CLD_CONTINUED is supported since Linux 2.6.9.
Added SI_TKILL (new in Linux 2.4.19).
Other minor changes.

signal.2

mtk

Removed text on ignoring SIGCHLD; replaced with pointer to sigaction.2.

sigwaitinfo.2

After bug report from Andrey Kiselev
Fixed prototype: "timeout" --> "*timeout"
as per: <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=222145>

stat.2

Enrico Zini

Added text to clarify that S_IS*() macros should be applied to st_mode field.
as per: <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=249698>

swapon.2

After Debian bug report from Anand Kumria
Added "no swap space signature" to EINVAL error.

mtk

Added EINVAL error for swapoff() ("not currently a swap area").

Added EBUSY error for swapon().

A few formatting fixes.

times.2

mtk

In Linux 2.6, the return value
of times changed; it is no
longer time since boot, but rather:

$$\text{boot_time} + 2^{32} / \text{HZ} - 300$$

Repaired note on SIGCHLD behavior to note that the
POSIX non-conformance has been fixed in 2.6.9.

Some formatting fixes.

undocumented.2

After bug report from Johannes Berg

Changed

.TH UNIMPLEMENTED

to:

.TH UNDOCUMENTED

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=220741>

wait.2

mtk

Added waitid(2).

Added WCONTINUED and WIFCONTINUED (new in 2.6.10).

Added text on SA_NOCLDSTOP.

Updated discussion of SA_NOCLDWAIT to reflect 2.6 behavior.

Much other text rewritten.

wait4.2

mtk

Rewrote this page, removing much duplicated information,
and replacing with pointers to wait.2.

Luis Javier Merino Morán / mtk

CONFORMING TO said "SVr4, POSIX". Changed to "4.3BSD"

waitid.2

mtk

New link to wait.2

assert.3

After bug report from Branden Robinson

The assert() failure message goes to stderr not stdout.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=284814>

ctime.3

mtk

Noted that 0 in tm_mday is interpreted to mean the last day of the preceding month.

getnameinfo.3

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=229618>

getnameinfo() does not set errno, it returns a non-zero value indicating the error.

mtk

added EAI_OVERFLOW error

killpg.3

mtk

Minor changes to SEE ALSO and CONFORMING TO.

lseek64.3

aeb

New page by Andries Brouwer

tzset.3

Richard Kreckel

Change "NULL" to "empty" when talking about the value of TZ.

http://sources.redhat.com/bugzilla/show_bug.cgi?id=601

printf.3

After bug report from Jan Kuznik

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=205736>

Fixed bad realloc() use in snprintf() example

realpath.3

mtk

Added discussion

of resolved_path == NULL.

random.4

After bug report from John V. Belmonte

Updated init and quit scripts to reflect kernel 2.4/2.6 reality

(Scripts taken from drivers/char/random.c)

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=247779>

proc.5

mtk

Updated description of /proc/loadavg to include

nr_running(), nr_threads, last_pid.

rtsig-max and rtsig-nr went away in 2.6.8

updated statm, and fixed error in order of list

boot.7

applied patch from Martin Schulze

capabilities.7

mtk

Added O_NOATIME for CAP_FOWNER

netdevice.7

Karel Kulhavy and AEB

Formatting fix after note from Karel Kulhavy and AEB, plus a few wording fixes.

signal.7

mtk

/proc/sys/kernel/rtsig-* were superseded by RLIMIT_SIGPENDING in kernel 2.6.8.

tcp.7

mtk/aeb

Updated details of interaction of TCP_CORK and TCP_NODELAY.

===== Changes in man-pages-2.01 =====

Released:

2004-12-20

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Pedro Zorzenon Neto <pzn@terra.com.br>

Tony Crawford <tony@klosterdorf.de>

Apologies if I missed anyone!

Global changes

accept.2
close.2
send.2
setuid.2
socket.2
closedir.3
initgroups.3
mkstemp.3
opendir.3
readdir.3
telldir.3

Matthew Dempsky, mtk

triggered by <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=283179>

The wording describing how errno is set was fixed up in these pages.

Typographical or grammatical errors have been corrected in several other places.

Changes to individual pages

sendfile.2

mtk

Adjusted descriptions of argument file types to be closer to 2.6 reality.

Wording and formatting changes.

ctan.3

ctanh.3

Tony Crawford

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=270817>

Formulae on the pages should be $T = S / C$ not $T = C / S$.

errno.3

Martin Schulze, mtk

Removed errno declaration from prototype, added notes on historical need for this declaration.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=174175>

aio_return.3

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=224953>

Changed erroneous "aio_return(2)" to "aio_return(3)".

posix_openpt.3

mtk

New by mtk

ptsname.3

mtk

Added description of ptsname_r().

Added ERRORS.

ptsname_r.3

mtk

New link to ptsname.3.

shm_open.3

Matthew Gregan

add <fcntl.h> to synopsis

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=271243>

strcasecmp.3

Marek

Habersack

.SH "CONFORMING TO"

-BSD 4.4

+BSD 4.4, SUSv3

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=234443>

strfry.3

Joshua Kwan

Added _GNU_SOURCE to prototype

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=213538>

strftime.3

Cartsen Hey

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=276248>

Changed range for "%S" from 0..61 to 0..60.

SUSv3 says 0..60. I think the manual page probably says

0..61, because that's what SUSv2 said.

(Some other implementations' man pages also say 0..61 --

e.g., Solaris 8 & 9, Tru64 5.1B; FreeBSD 5.1 says 0..60.)

The glibc manual currently says 0..60.

Given that SUSv3 says 0..60, I've changed the

manual page to also say this:

-The second as a decimal number (range 00 to 61).

+The second as a decimal number (range 00 to 60).

+(The range is up to 60 to allow

for occasional leap seconds.)

sysconf.3

Johannes Berg

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=226974>

-BR POSIX2_FORT_RUN " - " _SC_2_FORT_DEV

+BR POSIX2_FORT_DEV " - " _SC_2_FORT_DEV

system.3

Pedro Zorzenon

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=242638>

Noted use of `_XOPEN_SOURCE` to get macros from `<stdlib.h>`
for `wait(2)`.

mtk

Changed name of argument from 'string' to 'command' (like POSIX).

Noted that glibc does nowadays explicitly check for the existence
of the shell if 'command' is NULL, rather than the older behavior
of assuming the shell exists and always returning 1 if
'command' is NULL.

Other wording and formatting clean-ups.

undocumented.3

Remove some functions names that *are* documented.

==== Changes in man-pages-2.02 =====

Released: 2005-04-14

Contributors

The following people
contributed notes, ideas, or patches that have
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Apologies if I missed anyone!

Global changes

ctime.3

tzselect.8

zdump.8

zic.8

Martin (Joey) Schulze

Removed SEE ALSO reference to nonexistent newctime(3).

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=236884>

Typographical

or grammatical errors have been corrected in several
other places.

Changes to individual pages

clone.2

mtk

Noted the PID caching behavior of NPTL's getpid()
wrapper under BUGS.

Added futex(2), set_thread_area(2), set_tid_address(2),
tkill(2) under SEE ALSO.

epoll_ctl.2

epoll_create.2

Marko Kohtala / mtk

Improved various error descriptions.

epoll_wait.2

David Lloyd / Mike Frysinger, Marko Kohtala

Added EINTR to errors.

fcntl.2

Jamie Lokier / mtk

Improved discussion of F_SETOWN and F_SETSIG with respect to multi-threaded programs.

Generally cleaned up the discussion of F_SETOWN.

Updated CONFORMING TO to note that F_GETOWN and F_SETOWN are now in POSIX.

link.2

mtk

Noted discrepancy between Linux and POSIX.1 when oldpath is a symbolic link.

See: http://bugs.linuxbase.org/show_bug.cgi?id=367

and: <http://www.opengroup.org/austin/mailarchives/ag/msg08152.html>

Michael Haardt / mtk

Clarified EXDEV error description: it isn't possible to link across mount points, even if the mount points refer to the same file system.

mincore.2

mtk, after note from Gordon Jin

Updated ERRORS.

pipe.2

As per message from Serguei Leontiev

Removed SVr2, AT&T, and BSD from CONFORMING TO, since a pipe on those systems is actually bidirectional.

(Pipes are implemented as STREAMS on the former, and sockets on the latter.)

posix_fadvise.2

mtk

Noted kernel version where posix_fadvise() appeared and noted bug in handling of 'len' in kernels < 2.6.6.

rename.2

Michael Haardt

Clarified EXDEV error description: it isn't possible to rename a file across mount points, even if the mount points refer to the same file system.

semop.2

mtk

Noted kernel version numbers for semtimedop().

setitimer.2

Matthias Lang, mtk

Noted MAX_SEC_IN_JIFFIES ceiling.

Added note about treatment of out-of-range tv_usec values.

sigqueue.2

Johan Walles, Martin (Joey) Schulze

Added sigqueue.2 to SEE ALSO.

times.2

mtk

Added notes on non-standard behavior: Linux allows 'buf' to be NULL, but POSIX.1 doesn't specify this and it's non-portable.

uselib.2

Andries Brouwer

Improved DESCRIPTION; clarified distinction between EACCES and ENOEXEC.

bcopy.3

Heikki Orsila

bcopy() handles overlapping case, but memcpy() does not, so for consistency memmove() should be also mentioned.

getmntent_r.3

Martin (Joey) Schulze

New link to man3/getmntent.3.

memcpy.3

Small wording change after suggestion from Sasa Stevanovic.

strcasestr.3

mtk

Created as link to strstr.3.

strftime.3

mtk

Noted that SUSv2 allowed a range of 00 to 61 for %S specifier.

strstr.3

mtk

Added description of strcasestr().

random.4

aeb

Improved description of read from /dev/urandom.

st.4

Kai Makisara
Substantial updates.

man.7

Martin Schulze
Branden Robinson
Colin Watson
Mention the .URL macro more verbosely.

===== Changes in man-pages-2.03 =====

Released: 2005-06-02

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Vincent Fourmond <vincent.fourmond@9online.fr>

Apologies if I missed anyone!

Global changes

console.4
console_ioctl.4
mouse.4
tty.4
vcs.4

Pavel Heimlich
Change `ttys(4)' to `ttyS(4)'.

Typographical
or grammatical errors have been corrected in several
places.

Changes to individual pages

clone.2

mtk

Substantially enhanced discussion of CLONE_THREAD.

Added CLONE_SYSVSEM, CLONE_UNTRACED, CLONE_STOPPED.

Other minor fixes.

execve.2

aeb

Noted effect of ptracing when execing a set-UID program.

fcntl.2

Johannes Nicolai / mtk

Noted F_SETOWN bug for socket file descriptor in Linux 2.4 and earlier.

Added text on permissions required to send signal to owner.

flock.2

mtk

Noted that lock conversions are not atomic.

getrusage.2

mtk

ru_nswap has never contained useful information.

Kernel 2.6.6 clarified that with a patch

("[PATCH] eliminate nswap and cnsmap"). See also:

<http://www.ussg.iu.edu/hypermail/linux/kernel/0404.1/0720.html>

kill.2

mtk

Clarified wording of the 'pid == -1' case.

mount.2

mtk

Added MNT_EXPIRE, plus a few other tidy-ups.

sched_setaffinity.2

mtk

Added text to note that sched_setaffinity() will migrate the affected process to one of the specified CPUs if necessary.

Added a NOTE to point out that the affinity mask is actually a per-thread attribute that can be adjusted independently for each thread in a thread group.

shmctl.2

mtk

Noted aberrant Linux behavior with respect to new attaches to a segment that has already been marked for deletion.

Noted changes in permissions required for SHM_LOCK/SHM_UNLOCK.

wait.2

mtk

Noted that the __W* flags can't be used with waitid().

confstr.3

mtk

Added _CS_GNU_LIBC_VERSION and _CS_GNU_LIBPTHREAD_VERSION.

hosts.5

Ross Boylan / Martin Schulze

various changes as per

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=304242>

proc.5

mtk

Minor changes to discussion of /proc/PID/stat signal fields.

Added 'rt_priority' and 'policy' to /proc/PID/stat.

capabilities.7

mtk

1,\$s/inherited/inheritable/g

regex.7

Vincent Fourmond / Joey (Martin) Schulze

Removed discussion of '['[:<:]]' and '['[:>:]]' since they do not seem to be in the glibc implementation.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=295666>

tzselect.8

Joey (Martin) Schulze / Klaus Ethgen

The default zoneinfo directory is now /usr/share/zoneinfo.

(was: /usr/local/etc/zoneinfo)

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=267471>

==== Changes in man-pages-2.04 =====

Released: 2005-06-21

Contributors

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Apologies if I missed anyone!

Global changes

Various pages

mtk

For consistency across pages:

1,\$s/nonzero/non-zero/g

Typographical or grammatical errors have been corrected in several places.

New pages

pthread.7

mtk

An overview of the Linux implementations of POSIX threads.

Changes to individual pages

_exit.2

mtk

Various

minor changes.

epoll_ctl.2

Mike Furr

BUGS: In kernels < 2.6.9, EPOLL_CTL_DEL required a non-NULL 'event', even though this argument is ignored.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306517>

flock.2

mtk / Kevin Ryde

Clarified semantics of relationship between flock() locks and open file entries and file descriptors.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=291121>

getitimer.2

Olivier Croquette, Thierry Excoffier

Noted the existence of the short sleep bug (up to 1 jiffy).

getrlimit.2

mtk

RLIMIT_RSS only has affect "in 2.4.x", not "in 2.4 and later".

getrusage.2

Geoff Clare

Since Linux 2.6, the ru_nvcsw and ru_nivcsw fields are used.

nice.2

mtk / Guido Trotter

Rewrote description of return value.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=296183>

open.2

Walter Harms

O_DIRECT needs _GNU_SOURCE.

mtk

O_ASYNC works

for pipes and FIFOs in Linux 2.6.

Various minor fixes.

atexit.3

mtk

Various minor changes.

exit.3

mtk

Various minor changes.

getopt.3

mtk / Philipp Spitzer

Fix description of return value.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=308359>

hsearch.3

mtk

Changed (char *) to (void *) in example.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=313607>

log1p.3

Justin Pryzby

Make log(3) SEE ALSO log1p(3),

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=309578>

makecontext.3

Tanaka Akira

Fix description of RETURN VALUE for makecontext(),

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=311800>

on_exit.3

mtk

Various minor changes.

rand.3

kabloom

Small fix to a code example,

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=194842>

realpath.3

mtk / Thomas Hood

When specifying resolved_path as NULL,

realpath()

will (still) only allocate up to PATH_MAX bytes.

Plus other minor changes.

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=239424>

rcmd.3

Dave Love

The required header file for these functions on Linux is <netdb.h>.

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=311680>

scanf.3

Olivier Guilyardi

Arg for %p is a pointer to _a pointer to_ void,
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=263109>

stdin.3

Vincent Lefevre

freopen() can change the descriptors associated with
stdin/stdout/stderr, as per
<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=295859>

strerror.3

Baurjan Ismagulov

strerror_r(3) requires #define _XOPEN_SOURCE 600,
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=290880>

sysconf.3

Peter Cordes / mtk

Fix typo: "_SC_2_DEV" should be "_SC_2_C_DEV".

proc.5

mtk

Added pointers under /proc/sys/net
to tcp.7 and ip.7.

ip.7

mtk

Various wording and formatting fixes.
Reordered /proc/sys/net/ipv4/ip_* file descriptions alphabetically.

tcp.7

Dieter Brueggemann / mtk

Fixes to the discussion of SIOCATMARK and tcp_stdurg.

mtk

Various wording and formatting fixes.
Incorporated some new /proc/sys/net/ipv4/tcp_* file descriptions
from the 2.6.12 source file Documentation/networking/ip-sysctl.txt.

==== Changes in man-pages-2.05 =====

Released: 2005-06-27

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Ove Kaaven <ovek@arcticnet.no>

Apologies if I missed
anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places. (Special thanks to A Costa.)

Changes to individual pages

_exit.2

mtk / aeb

Reversed 2.04 introduction of the term "process termination
function".

close.2

mtk

Clarified what type of lock close() affects.
Minor formatting changes.

dup.2

mtk

Consistent use of terms "open file description",
"file status flags", and "file descriptor flags".
Removed mention of lock sharing -- it was not accurate.
Minor formatting fixes.

fcntl.2

mtk

Consistent use of terms "open file description",
"file status flags", and "file descriptor flags".
Some rewriting of discussion of file descriptor flags
Under F_DUPFD, replaced some text duplicated in dup.2
with a cross ref to dup.2
Minor wording and formatting fixes.

fpclassify.3

mtk /

Martin (Joey) Schulze / Bas Zoetekouw

The return value of `isinf()` changed in `glibc 2.02` to differentiate positive and negative infinity.

See: <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=285765>

getgid.2

getuid.2

Delian Krustev

Remove confusing text describing real and effective IDs.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=285852>

getitimer.2

mtk

The short sleep bug (up to 1 jiffy) that was newly noted in `man-pages-2.04` has just been fixed in `2.6.12`.

getpriority.2

mtk

Changed range documented in main text from `-20..20` to `-20..19`.

Noted that the range is `-20..20` on some systems.

open.2

mtk / aeb

Clarification of term "open file description" along with explanation of what information it maintains.

Other wording improvements.

Various minor wording changes.

atexit.3

mtk / aeb

Reversed `2.04` introduction of the term "process termination function".

mtk

Noted use of `atexit()` for establishing function to be invoked on shared library unload.

Noted that `atexit()`-registered functions are not invoked on abnormal termination.

Formatting fixes.

exit.3

mtk / aeb

Reversed `2.04` introduction of the term "process termination function".

mtk

Minor rewording and formatting changes.

getloadavg.3

mtk

Added #define _BSD_SOURCE to prototype.

log2.3

Martin (Joey) Schulze

Add ERANGE error.

readdir.3

mtk

Added definition of Linux dirent structure.

Some formatting cleanups.

strtod.3

Dora Anna Volgyesi / mtk

strtold() and strtod() need _ISOC99_SOURCE or _XOPEN_SOURCE=600

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=246668>

tdestroy.3

mtk

New link to tsearch.3.

tsearch.3

mtk

Added tdestroy to .TH line.

mem.4

mtk

Change "chown root:mem /dev/mem" to

"chown root:kmem /dev/mem".

null.4

mtk

Change "chown root:mem /dev/null /dev/zero" to

"chown root:root /dev/null /dev/zero".

vcs.4

Dan Jacobson / Martin (Joey) Schulze

Replaced "selection(1)" by "gpm(8)" under SEE ALSO

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=253515>

signal.7

Ove Kaaven

SA_SIGACTION should be SA_SIGINFO

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=305369>

urn.7

mtk

New link to uri.7

===== Changes in man-pages-2.06 =====

Released: 2005-07-15

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Many uses of hyphens and dashes were corrected.

New pages

canonicalize_file_name.3

Walter Harms / mtk

Removed Pages

sstk.2

mtk

AFAIK, this system call has never actually done anything (other than be a stub) on any Unix.

Changes to individual pages

accept.2

mtk

Various wording and formatting fixes.

bind.2

mtk

Minor formatting changes

clone.2

mtk

Various minor wording improvements; some formatting fixes

connect.2

mtk

Various wording and formatting
fixes.

epoll_create.2

Bhavesh P Davda

s/positive/non-negative/ [for file descriptor]

getrlimit.2

mtk

Documented RLIMIT_MSGQUEUE limit.

RLIMIT_RSS ceased to have any effect in 2.4 in kernel 2.4.30.

(It already didn't have any effect in 2.2.x and 2.6.x.)

s/MADVISE_WILLNEED/MADV_WILLNEED/

listen.2

mtk

Removed historic comment on BSD backlog ceiling.

Minor wording and formatting changes.

semop.2

mtk

Added BUG: in some circumstances, a process that is waiting for a semaphore to become zero is not woken up when the value does actually reach zero.

<http://marc.theaimsgroup.com/?l=linux-kernel&m=110260821123863&w=2>
<http://marc.theaimsgroup.com/?l=linux-kernel&m=110261701025794&w=2>

socket.2

mtk

Various minor wording improvements

umask.2

mtk

Added mkdir(2) to discussion, made term "file mode creation mask" clearer.

Various, mostly
small, wording changes

errno.3

Martin Pool

Change description for ESTALE

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=237344>

fgetgrent.3

getgrent.3

getgrent_r.3

David Lloyd

Added SEE ALSO putgrent(3)

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=211336>

getgrent.3

getgrnam.3

getpwent.3

getpwnam.3

Lars Wirzenius / mtk

Replace mention of /etc/{passwd,group} by references to
"passwd/group database", and LDAP and NIS.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=316117>

mtk

Miscellaneous wording improvements

Consistent DESCRIPTION and ERRORS wording across these pages.

getnameinfo.3

mtk

Relocate misplaced text describing gai_strerror().

getnetent.3

Petter Reinholdtsen

s/endservent/endnetent/

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=316517>

getspnam.3

Lars Wirzenius / mtk

Replace mention of /etc/shadow by references

to

"shadow password database", and LDAP and NIS.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=316117>

mtk, Claus Weber

Miscellaneous wording improvements

Consistent DESCRIPTION wording vis-a-vis getpwnam.3 etc.

hsearch.3

Frederik Deweerdt

Fix hsearch_r() prototype

scanf.3

Justin Pryzby / mtk

Fix description of RETURN VALUE

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=317037>

mtk

various parts substantially rewritten; added description of %n\$ form; various text incorporated from the GNU C library documentation ((C) The Free Software Foundation).

shm_open.3

mtk

Modified details of how user and group ownership of a new object are set.

Various minor wording and formatting cleanups.

elf.5

Mike Frysinger

tweaked the short description to include definition of 'ELF'

add ELFOSABI_NONE to the ELFOSABI_list

tweak/add

more machines to EM_list for ehdr->e_machine

fix indenting to be consistent

tweak the display of the ELF_ST_* macros

document the Elf_Dyn structure

proc.5

mtk

Updated discussion of /proc/stat.

Added text on the /proc/sys/fs/mqueue/* files.

ip.7

Steven Murdoch

Change protocol in UDP prototype.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=182635>

tcp.7

Dov Murik

The first sentence under NOTES about SO_KEEPALIVE and SIGPIPE makes no grammatical sense (and possibly also no technical sense).

It has been removed.

==== Changes in man-pages-2.07 =====

Released: 2005-07-19

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andries Brouwer <Andries.Brouwer@cwi.nl>

Mike Frysinger <vapier@gentoo.org>

Apologies if I missed anyone!

Global changes

Various

pages

mtk

The terms "set-user-ID" and "set-group-ID" are now used consistently (no abbreviations) across all manual pages.

Various pages

mtk

Consistent use of "saved set-user-ID" and "saved set-group-ID" (no more "saved user ID", "saved effective UID", saved group ID", etc.)

Various pages

mtk

Global fixes in textual descriptions:

uid --> UID

gid --> GID

pid --> PID

id --> ID

Various pages

mtk

Consistent use of st_atime, st_ctime, st_mtime, with explanatory text, instead of atime/ctime/mtime.

Various pages

mtk

Classical BSD versions are now always named x.yBSD (formerly there was a mix of x.yBSD and BSD x.y).

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

setresuid.2

mtk

Some rewording.

stat.2

Mike Frysinger

Improve description of st_dev and st_rdev.

mtk

Various wording and formatting improvements.

truncate.2

mtk

Some formatting fixes

===== Changes in man-pages-2.08 =====

Released: 2005-09-21

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Various pages

mtk

RFC references are now always written as "RFC\ nnn"
(not "RFC nnn" or "RFCnnn").

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

du.1

Mike Frysinger

To get an effect like "-h", BLOCKSIZE must start with "human",
not "HUMAN".

time.1

Mike Frysinger

s/standard output/standard error/

clone.2

Paul Brook / mtk

Fix small error in description of CLONE_PARENT_SETTID

connect.2

Heikki Orsila

Add EINTR error

See <http://lkml.org/lkml/2005/7/12/254>

getpriority.2

mtk

Expanded discussion of relationship between user and kernel representations of the

nice value.

Added discussion of RLIMIT_NICE and a cross reference to getrlimit.2 under the description of the EACCES error.

Noted 2.6.12 change in credentials checking for setpriority().

getrlimit.2

mtk

Added description of RLIMIT_RTPRIO

Added description of RLIMIT_NICE

mmap.2

mtk

Noted bug in MAP_POPULATE for kernels before 2.6.7.

mremap.2

mtk

Added _GNU_SOURCE to prototype.

Rewrote description of MREMAP_MAYMOVE.

Rewrote description of EAGAIN error.

Added discussion of resizing of memory locks.

Added entries to SEE ALSO.

Some formatting fixes.

msgctl.2

mtk

Added IPC_INFO, MSG_INFO, MSG_STAT descriptions.

nanosleep.2

Baurzhan Ismagulov

Add to prototype: define _POSIX_C_SOURCE 199309

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=314435>

nice.2

mtk

Added sentence noting that range of the nice value is described

in getpriority.2.

Added cross-reference to setrlimit(2) for discussion on

RLIMIT_NICE.

outb.2

David N. Welton / Justin Pryzby / mtk

Clarified the order of value and port arguments;

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=263756>

pause.2

mtk

Added SEE ALSO for sigsuspend.2

Some formatting fixes.

poll.2

Tommy Pettersson

nfds should be prototyped as nfd_t

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=322934>

mtk

Some wording and formatting improvements.

prctl.2

mtk

Since kernel 2.6.13 PR_SET_DUMPABLE can also have the value 2.

rand.3

Hrvoje Niksic / mtk

Remove misleading text describing FreeBSD's sranddev() function.

As per debian bug 328629

readv.2

mtk / Walter harms

Added LINUX NOTES on trickery performed by glibc when vector size exceeds IOV_MAX.

Formatting clean-ups.

remap_file_pages.2

mtk

Added

text to note that start and size are both rounded downward.

sched_setparam.2

mtk

Modified discussion of privileges; added pointer to sched_setscheduler.2 for a discussion of privileges and resource limits.

sched_setscheduler.2

mtk

Modified discussion of privileges; added discussion of RLIMIT_RTPRIO.

semctl.2

mtk

Added IPC_INFO, SEM_INFO, SEM_STAT descriptions.

shmctl.2

mtk

Added IPC_INFO, SHM_INFO, SHM_STAT descriptions.

sigaction.2

mtk

Split sigpending(), sigprocmask(), and sigsuspend() out into separate new pages.

Other minor changes

mtk

NOTES: described SA_NODEFER / sa_mask bug which was present in all kernels up to and including 2.6.13.

See <http://marc.theaimsgroup.com/?l=linux-kernel&m=112360948603171&w=2> and <http://marc.theaimsgroup.com/?l=linux-kernel&m=112362164911432&w=2>

List: linux-kernel

Subject: Signal handling

possibly wrong

From: Bodo Stroesser

Date: 2005-08-09 17:44:06

signal.2

mtk

Updated SEE ALSO to reflect splitting of sigaction.2 into sigaction.2, sigsuspend.2, sigpending.2, sigprocmask.2

sigpending.2

mtk

New page created by splitting out from sigaction.2

Changed CONFORMING TO.

sigprocmask.2

mtk

New page created by splitting out from sigaction.2

Added text on effect of NULL for 'set' argument.

Added text noting effect of ignoring SIGBUS, SIGFPE, SIGILL, and SIGSEGV.

Noted that sigprocmask() can't be used in multithreaded process.

Fixed EINVAL error diagnostic.

Changed CONFORMING TO.

sigsuspend.2

mtk

New page created by splitting out from sigaction.2

Added NOTES on usage.

Added new text to DESCRIPTION.

Changed CONFORMING TO.

stat.2

Mike Frysinger

Improve st_blocks description.

carg.3

Ramiro

Aceves / aeb

Change:

One has $\text{carg}(z) = \text{atan}(\text{creal}(z) / \text{cimag}(z))$

to:

One has $\tan(\text{carg}(z)) = \text{cimag}(z) / \text{creal}(z)$

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=326720>

cmmsg.3

mtk

s/SOL_TCP/IPPROTO_TCP/ (POSIX standard name)

dlopen.3

Alain Portal

s/-nostartupfiles/-nostartfiles/

getaddrinfo.3

mtk

Nowadays (since 2.3.4) glibc only sets the first ai_canonname field if AI_CANONNAME was specified (the current behavior is all that SUSv3 requires).

1,\$s/PF_/AF_/g

Added descriptions of AI_ALL, AI_ADDRCONFIG, AI_V4MAPPED, and AI_NUMERICSERV.

Some wording and formatting fixes.

getpwnam.3

Bernhard R. Link / mtk

Add NOTES text describing relationship of pw_dir and HOME and pointing out that applications should preferentially inspect HOME.

inet.3

Mike Frysinger

Mention "little endian" and "big endian".

Added note about octal and hex interpretation of numbers-and-dots notation.

rpc.3

mtk / Ludovic Courtes

Commented out references to `rpc_secure(3)` -- we don't currently have such a page in the man-pages set.

In response to <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=325115>

setenv.3

mtk

glibc 2.3.4 fixed the "name contains '='" bug.

strlen.3

Mike Frysinger

Added "#define _GNU_SOURCE" to prototype.

initrd.4

Norbert Buchmuller / mtk

Added text noting that the use of `real-root-dev` for changing the root device is obsolete, in favor of `pivot root`.

(However, the page still needs to be rewritten to actually describe the `pivot_root` method...)

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=323621>

proc.5

mtk

Improve text describing `/proc/sys/fs/mqueue/*` files.

Describe `/proc/sys/fs/suid_dumpable` (new in 2.6.13).

Added placeholder mention of `/proc/zoneinfo` (new in 2.6.13).

More needs to be said about this file.

Repaired earlier cut and paste mistake which resulted in part of the text of this page being duplicated.

utmp.5

Mike Frysinger

Added text on biarch details for `ut_session` and `ut_tv`.

capabilities.7

mtk

Added CAP_AUDIT_CONTROL and CAP_AUDIT_WRITE.

ip.7

mtk / Andrew Pimlott

Add a couple of words to make it clear that port is a 16-bit number.
Reformat long source lines (no text changed).

s/SOL_IP/IPPROTO_IP/ (POSIX standard name)

Hasso Tepper

Fix discussion of IPC_RECVTTL / IP_TTL.

signal.7

mtk

Updated SEE ALSO to reflect splitting of sigaction.2 into
sigaction.2, sigsuspend.2, sigpending.2, sigprocmask.2.

socket.7

mtk

Clarified details of use of SO_PEERCRED.

tcp.7

mtk

s/SOL_TCP/IPPROTO_TCP/ (POSIX standard name)

s/SOL_IP/IPPROTO_IP/ (POSIX
standard name)

udp.7

mtk

Added description of UDP_CORK socket option.

s/SOL_UDP/IPPROTO_UDP/ (POSIX standard name)

s/SOL_IP/IPPROTO_IP/ (POSIX standard name)

==== Changes in man-pages-2.09 =====

Released: 2005-10-13

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Samuel Thibault <samuel.thibault@ens-lyon.org>

Tomas Pospisek <tpo_deb@sourcepole.ch>
Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes

ptsname.3
getpt.3
unlockpt.3
openpty.3
posix_openpt.3
grantpt.3
pts.4
tty_ioctl.4
mtk

Added SEE ALSO for new pty.7 page.

Typographical or grammatical errors have been corrected in several places.

New pages

pty.7
mtk
Overview of Unix 98 and
BSD pseudo-terminals.

Changes to individual pages

ldd.1
mtk
Remove "-V" option (fix from Fedora man-pages-2.07-7).

fcntl.2
Peter Chubb / Trond Myklebust / mtk
Since kernel 2.6.10, a read lease can only be placed on a
file descriptor that is opened read-only.
See the following LKML thread of Aug 2005
("fcntl(F_GETLEASE) semantics?"):
<http://marc.theaimsgroup.com/?l=linux-kernel&m=112371777712197&w=2>
<http://marc.theaimsgroup.com/?l=linux-kernel&m=112374818213000&w=2>
<http://marc.theaimsgroup.com/?l=linux-kernel&m=112376335305284&w=2>

mprotect.2

mtk

Add new text to ENOMEM error.

mremap.2

mtk

Added description of MREMAP_FIXED and 'new_address' argument under NOTES.

Revised text of EINVAL error.

read.2

Samuel Thibault / mtk

read() can fail with EINVAL when using

O_DIRECT

mtk

Added open(2) to SEE ALSO.

shmget.2

mtk

s/int/size_t/ for type of 'size' argument (fix from Fedora man-pages-2.07-7).

write.2

Samuel Thibault / mtk

write() can fail with EINVAL when using O_DIRECT

atanh.3

mtk

Fix: s/acosh/atanh/ (fix from Fedora man-pages-2.07-7).

fopen.3

mtk

Improved "a+" description (fix from Fedora man-pages-2.07-7).

getrcent.3

mtk

s/getrcent/setrcent/ (fix from Fedora man-pages-2.07-7).

stdio.3

mtk / Justin Pryzby

Removed references to fopen() and fwopen(), which are BSDisms that don't appear in glibc.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=331174>

strftime.3

mtk

Typo fix: %Ry ==> %Ey [SUSv3 mentions...] (fix from Fedora man-pages-2.07-7).

nsswitch.conf.5

mtk

s/network/networks/ (fix from Fedora man-pages-2.07-7).

proc.5

mtk

Added description of /proc/sys/vm/legacy_va_layout.

socket.7

mtk

Update description of SO_RCVLOWAT and SO_SNDBLOWAT.
(fix derived from Fedora man-pages-2.07-7).

==== Changes in man-pages-2.10 =====

Released: 2005-10-19

Global changes

The changes in this release consist **solely** of formatting fixes, with the aim bringing greater consistency to the manual pages according to the following rules:

- Function name references should **always** be followed by parentheses, "()" (possibly containing a manual page section number).
- The parentheses following a function name should **not** be formatted. Thus, for example, instead of:

.B name()

one should write:

.BR name ()

Much of the change was automated using two scripts:

add_parens_for_own_funcs.sh and unformat_parens.sh.

For the (possible) benefit of downstream manual page maintainers and translators, I have placed these scripts in a new subdirectory 'scripts'.

NOTE THE FOLLOWING POINTS WELL:

--

These scripts provide a computer-assisted solution to the above two goals. However, they are not perfect, and their output should be scanned by a human. (To see what changes the two scripts *would* make, without making them, use the "-n" command line option.)

-- The scripts do not fix all instances that violate the above rules: some manual fixes are required. Two further scripts are provided to help find remaining instances of function names without following "()": find_dots_no_parens.sh and find_slashes_no_parens.sh.

The following changes were made:

-- add_parens_for_own_funcs.sh was applied to the pages in Sections 2 and 3.

-- unformat_parens.sh was applied to pages in Sections 2, 3, 4, and 7 (the only sections where such changes were required).

-- further changes (not so very many) were performed by hand. (found places to fix with the assistance of find_dots_no_parens.sh and find_slashes_no_parens.sh).

==== Changes in man-pages-2.11

====

Released: 2005-10-24

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alain PORTAL <aportal@univ-montp2.fr>

Apologies if I missed anyone!

Global changes

Various pages

mtk

Most instances of the constant "NULL" are not formatted (bolded) in man pages, but a few are. For consistency, formatting on "NULL" has been removed where it occurred.

Many minor formatting fixes were made.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

getrlimit.2

mtk

Added EINVAL error for rlim_cur > rlim_max when calling setrlimit().

path_resolution.2

mtk

Repaired discussion of capabilities and file system UID, which mistakenly had involved exec() in the discussion.

prctl.2

mtk

Removed text saying there is no library interface. There is nowadays.

mkfifo.3

mtk

Minor change to RETURN VALUE text.

sk98lin.4

Alain Portal

Formatting fixes.

capabilities.7

mtk

Minor changes.

==== Changes in man-pages-2.12 =====

Released: 2005-10-31

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Akihiro MOTOKI <amotoki@dd.iij4u.or.jp>

Andries Brouwer <Andries.Brouwer@cwi.nl>
Brian M. Carlson <sandals@crustytoothpaste.ath.cx>
herbert <herbert@gondor.apana.org.au>
Martin Landers <martin.landiers@treibgut.net>
Michael Benedict <benedict@starbak.net>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

mlock.2

mtk

Reworded text around PAGESIZE, noting also that
sysconf(_SC_PAGESIZE)
can be used.

path_resolution.2

mtk / aeb

Removed words "as well" (added in 2.11) from the phrase
"and it gets these last five capabilities if its fsuid is 0 as well"
since there are (unusual) situations in which fsuid can be 0 while
the effective UID is not.

Reworked (cut down) discussion of capabilities, moving part of
it into capabilities.7

setresuid.2

mtk

Add text to note that setresuid() always modifies the file
system UID, and setresgid() likewise always modifies the file
system GID.

shmget.2

mtk

Added (brief) description of SHM_HUGETLB.

sigaltstack.2

mtk / Martin Landers

Noted that ss_sp is automatically aligned by the kernel.

byteorder.3

Brian M. Carlson / herbert

Change <netinet/in.h> to <arpa/inet.h> in prototype; add text explaining that some systems need the former header.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=265244>

capabilities.7

mtk

Reworked part of the discussion of exec() and capabilities.

Added sub-section "Effect of User ID Changes on Capabilities".

Reworked discussion of CAP_SYS_ADMIN and file-max.

==== Changes in man-pages-2.13 =====

Released: 2005-11-03

This release consists entirely of formatting and typographical fixes.

Global changes

Typographical or grammatical errors have been corrected in several places.

Various pages

mtk

Function and page cross references that were italicized were made bold (which is how the majority of function and page cross references were already done).

Various pages

mtk

Instances of things like "NULL-terminated string" were changed to "null-terminated string".

Various pages

mtk

Pathnames, structures, arguments, and <header-files> that were bold were changed to italics.

Various pages

mtk

Instances

of the constant "NULL" that were bold-faced were made

unformatted (which is how most instances of "NULL" were already formatted.)

==== Changes in man-pages-2.14 =====

Released: 2005-11-17

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Angelo <ang310@katamail.com>

Avery Pennarun <apenwarr@nit.ca>

Justin Pryzby <justinpryzby@users.sourceforge.net>

Martin (Joey) Schulze <joe@infodrom.org>

Stefan Brüns <stefan.bruens@rwth-aachen.de>

Volker Reichelt <reichelt@igpm.rwth-aachen.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

rexec.3

mtk / Justin Pryzby

This page is taken as is from the FreeBSD 5.4 distribution.

(Not checked against Linux reality, but likely things are the same.)

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=336875>

Changes

to individual pages

arch_prctl.2

mtk

Updated discussion about lack of prototype in glibc.

execve.2

mtk

Improved description of E2BIG error: it relates to the sum of the bytes in both environment and argument list.

fcntl.2

mtk

Clarified parts of the discussion of file leases, noting effect of open(O_NONBLOCK), interruption by signal handler, or termination by signal in lease breaker. In response to <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=339037>

stat.2

mtk / Stefan Brüns

Added LINUX NOTES describing nanosecond timestamps.

frexp.3

Volker Reichelt / mtk

Fixed to point out that frexp() returns a number whose *absolute* value is ≥ 0.5 and < 1 . Amended the example program to demonstrate this.

open.2

mtk / Avery Pennarun

Add EWOULDBLOCK error for file leases.

In response to

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=339037>

putenv.3

mtk

Although the glibc implementation returns -1 on error (and some other man pages (e.g., the BSDs) also document that value for error returns), SUSv3 merely says "non-zero" (and this is what manual pages on many implementations also say).

posix_memalign.3

mtk

Formerly, the page said that all systems declare memalign() in `<malloc.h>`. In fact, many declare it in `<stdlib.h>`.

strtok.3

mtk

Almost a complete rewrite after Angelo pointed out that the existing page was deficient.

sd.4

Martin Schulze

Remove SEE ALSO for nonexistent scsi.4.

proc.5

mtk

Updated discussion of /proc/sys/kernel/pid_max.

signal.7

mtk

Added pthreads.7 to SEE ALSO.

ld.so.8

mtk

Fix typo: s/LD_DEBUG_OUTPUT/LD_PROFILE_OUTPUT/

===== Changes in man-pages-2.15 =====

Released:

2005-11-30

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andries Brouwer <Andries.Brouwer@cwi.nl>

James Vega <jamessan@debian.org>

Malcolm Scott <mas90@io.malc.org.uk>

Senthil Kumar <senthilkumar_sen@hotpop.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

sigvec.3 -- for details, see below.

sigset.3 -- for details, see below.

Changes to individual pages

kill.2

mtk

Added text describing the 2.6.[0-7] EPERM bug that occurred when sending signals to a process group.

sigaction.2

mtk

Noted that `si_signo` is unused on Linux.

sigpending.2

mtk

Added BUGS noting wrapper function problem that existed in glibc versions $\leq 2.2.1$.

sigpause.2

mtk

Moved to section 3; see also [sigpause.3](#) below.

sigsetops.3

mtk

Added a GLIBC NOTES section describing `sigisemtpyset()`, `sigandset()`, and `sigorset()`.

sigvec.2

sigblock.2

mtk

These pages have been deleted, and replaced by a new [sigvec.3](#) man page that more fully describes the BSD signal API.

siggetmask.2

sigmask.2

sigsetmask.2

mtk

These links to the now-deleted [sigblock.2](#) have been also been deleted. They are replaced by corresponding links in Section 3: [sigmask.3](#), [sigsetmask.3](#), [siggetmask.3](#).

sigvec.3

mtk

This new page is provides a fuller description of the BSD signal API than was provided in the now-deleted [sigvec.2](#) and [sigblock.2](#).

sigblock.3

siggetmask.3

sigmask.3

sigsetmask.3

mtk

Created as links to [sigvec.3](#).

sigpause.3

mtk

Moved here from Section 2.

Some minor wording fixes; clarified System V origins of X/Open flavor of this function.

sigset.3

mtk

New page describing the System

V signal API: sigset(), sighold(),
sigrelse(), sigignore().

strftime.3

James Vega

Add further text clarifying that %+ specifier is not supported in glibc2.

mtk

Added GLIBC NOTES section describing optional 'flag' and 'width' components of conversion specifiers.

Some wording changes to bring terminology closer to SUSv3.

Added an example program.

vm86old.2

mtk / aeb

Add as new link to vm86.2.

intro.7

mtk

Added a few words to reflect the fact that several of the section 7 pages provide overviews of various topics.

signal.7

mtk

Added some SEE ALSO entries.

socket.7

Senthil Kumar / mtk

Added text noting that select()/poll() do not respect SO_RCVLOWAT.

udp.7

Malcolm Scott

s/tcp_socket/udp_socket/ in example

Fixes <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=340927>

==== Changes in man-pages-2.16 =====

Released:
2005-12-02

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alan Stern <stern@rowland.harvard.edu>
Andries Brouwer <Andries.Brouwer@cwi.nl>
Urs Thuermann <urs@isnogud.escape.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

HOWTOHELP

Urs Thuermann
Added instructions for finding maintainer in Debian package.

poll.2
mtk
Added NOTES about INFTIM constant provided on some other implementations.

shmop.2
Alan Stern
The -1 error return of shmat() should be cast "(void *)".

strftime.3
aeb
Remove junk text (actually intended as source code comment in page).

ip.7
Urs Thuermann
Fix a typo: s/SOCK_RAW/SOCK_PACKET/

packet.7

Urs Thuermann

Clarification: s%SOCK_PACKET%PF_INET/SOCK_PACKET%

=====

Changes in man-pages-2.17 =====

Released: 2005-12-13

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Justin Pryzby <justinpryzby@users.sourceforge.net>

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Urs Thuermann <urs@isnogud.escape.de>

Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

fmemopen.3

Walter Harms / mtk

New documentation for the glibc-specific fmemopen() and open_memstream(). Based on glibc info page.

pipe.7

mtk (with prompting and suggestions for improvements by Michael Haardt)

New page providing overview of pipes and FIFOs.

Changes to individual pages

HOWTOHELP

mtk

Added notes on how to
write example programs for manual pages.

fork.2

mtk

Added pointers to examples of fork() in wait.2 and pipe.2.

pipe.2

mtk

Added an example program.
Added SEE ALSO for new pipe.7 page.

wait.2

mtk

Added example program demonstrating use of fork() and waitpid().

carg.3

Justin Pryzby

Delete line that should have been deleted when applying
2.08 fix for this page.

getaddrinfo.3

mtk

Rearranged EAI_* list alphabetically.

inet.3

mtk

Added GLIBC NOTES describing feature test macros required
to expose declaration of inet_aton().

open_memstream.3

mtk

New link to new fmemopen.3.

fifo.4

mtk

Added SEE ALSO for new pipe.7 page.

environ.5

mtk

Removed BROWSER, since it seems not in fact to be common.

socket.7

Urs Thuermann

Added documentation of SO_TIMESTAMP.

tcp.7

mtk

Noted 200 millisecond ceiling imposed on TCP_CORK.

udp.7

mtk

Rearranged options into something approximating alphabetical order.

==== Changes in man-pages-2.18 =====

Released: 2005-12-15

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Martin (Joey) Schulze <joe@infodrom.org>

Mike Frysinger <vapier@gentoo.org>

Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

bind.2

mtk

Added mention of AF_INET6 address family.

Added discussion of sockaddr structure and an example in the Unix domain.

recv.2

mtk

Put 'flags' list in alphabetical order.

send.2

mtk

Added cross-reference from discussion
of MSG_MORE to UDP_CORK
in udp(7).

Put 'flags' list in alphabetical order.

err.3

mtk

Added CONFORMING TO section noting that these are
non-standard BSDisms.

errno.3

Justin Pryzby

Added SEE ALSO for err.3.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306867>

gethostbyname.3

Martin (Joey) Schulze / mtk

Added references to nsswitch.conf(5); remove cross references
to resolv+(8).

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=308397>

perror.3

Justin Pryzby

Added SEE ALSO for err.3 .

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306867>

resolver.3

mtk / Martin (Joey) Schulze

Remove cross references to resolv+(8); add cross references to
resolv.conf(5).

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=214892>

Added SEE ALSO entry for resolver(5);

see <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=251122>

strerror.3

mtk / Stefan Puiu

Rewrote and extended the discussion of the two flavors of
strerror_r(), and added some additional information on
strerror().

Justin Pryzby

Added SEE ALSO for err.3, as per

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306867>

elf.5

Mike Frysinger

Fix three typos in identifier names.

operator.7

Karsten Sperling

The + operator should be in the list of unary operators.

raw.7

mtk

Small wording changes around discussion of SO_BSDCOMPAT.

Fixed a couple of wording errors elsewhere.

Reformatted some long lines.

socket.7

mtk, after a note by Stefan Puiu

Updated discussion of SO_BSDCOMPAT.

Reformatted some long lines.

Noted the Linux-specific feature whereby setsockopt() doubles the value given for SO_SNDBUF and SO_RCVBUF.

Noted kernel-imposed minimum values for SO_SNDBUF and SO_RCVBUF.

udp.7

mtk, after a note by

Stefan Puiu

Updated discussion of SO_BSDCOMPAT.

unix.7

mtk

Added new (UN)SUPPORTED FEATURES section in which it is noted that Unix domain sockets do not support MSG_OOB or MSG_MORE.

Noted details of SO_SNDBUF and SO_RCVBUF support for Unix domain sockets.

==== Changes in man-pages-2.19 =====

Released: 2005-12-23

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andries Brouwer <Andries.Brouwer@cwi.nl>
Walter Harms <walter.harms@informatik.uni-oldenburg.de>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

HOWTOHELP

mtk

Minor changes.

bind.2

Stefan Puiu / mtk

Remove text under EINVAL error: "This may change in the future:

see linux/unix/sock.c for details." This behavior has been unchanged for a long time, and seems unlikely to change.

Add EADDRINUSE to errors.

send.2

aeb

Add cmsg(3) to SEE ALSO.

fopen.3

Walter Harms / mtk

Added description of 'x' mode character (exclusive open).

pipe.7

mtk / aeb

Some wording changes to description of pipes.

===== Changes in man-pages-2.20 =====

Released: 2006-01-03

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

sigaltstack.2

mtk

Added some text to explain the usual scenario in which sigaltstack() is employed.

getloadavg.3

mtk

Noted that this function is available since glibc 2.2.

strcpy.3

mtk

s/nulls/null bytes/

capabilities.7

mtk

Noted that capability bounding set appeared with kernel 2.2.11.

arp.7

icmp.7

ip.7

ipv6.7

netdevice.7

packet.7

raw.7

rtnetlink.7

socket.7

tcp.7

unix.7

udp.7

mtk

The only changes to these pages have been for formatting:

- Structure definitions were changed to K&R style
- Some long source lines were broken to fit into ~70 character lines.

No changes were made to the content of these pages (yet...).

==== Changes in man-pages-2.21 =====

Released: 2006-01-16

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andries Brouwer <Andries.Brouwer@cw.nl>
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Senthil Kumar <senthilkumar_sen@hotpop.com>
Stefan Puiu <stefanpuiu@yahoo.com>

Apologies if I missed anyone!

Global changes

dd.1 cp.1
truncate.2 gethostname.2 lseek.2 listxattr.2 readlink.2
sysfs.2 stat.2 ustat.2 uname.2 getdomainname.2
argz_add.3
asprintf.3 confstr.3 bstring.3 bzero.3 dlopen.3 fwide.3
gethostbyname.3 getline.3 getlogin.3 getnameinfo.3 getpass.3 hsearch.3
perror.3 printf.3 readdir.3 scanf.3 stpcpy.3 strdup.3 strfmon.3
strftime.3 string.3 strptime.3 sysconf.3 termios.3 ttyname.3
dsp56k.4 tty_ioctl.4
elf.5 proc.5 termcap.5
charsets.7 unix.7

mtk

Various pages use inconsistent terms for 'null byte' (which is the C99/SUSv3 term for the '\0' character).

To rectify this the following changes were made in the above pages:

Replace 'zero byte' with 'null byte'.
Replace 'null character' with 'null byte'.
Replace 'nulls' with 'null bytes'.
Replace 'NUL-terminated' by 'null-terminated'.
Replace 'NUL' by 'null byte'.
Replace 'terminating NUL' by 'terminating null byte'.
Replace 'final NUL' by 'terminating null byte'.
Replace 'NUL character' by 'null byte'.

Various pages

mtk

Replace "SysV"/"SYSV" by "System V".

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

capget.2

mtk

Noted bug that could wrongly cause EPERM in unprivileged capset() with 'pid' field == getpid().

epoll_ctl.2

mtk

Noted that EPOLLONESHOT was added in 2.6.2.

gethostname.2

mtk

Added GLIBC NOTES describing operation of glibc's gethostname() wrapper function.

mmap.2

mtk / Mike Frysinger

Clarify relationship between mmap2(2) and mmap64(3).

mtk

A few other small rewordings.

mmap64.3

Mike Frysinger

New link to mmap.2.

open.2

mtk

Added BUG noting that O_ASYNC can't be enabled via open(): fcntl() must be used for this purpose.

recv.2

Stefan Puiu

Relocate misplaced discussion of MSG_DONTWAIT.

dlopen.3

mtk

Rewrote discussion of dlopen() 'flag' argument;
added descriptions

of RTLD_NOLOAD, RTLD_DELETE,
and RTLD_DEEPCBIND.

Noted use of atexit() to register a function that is
automatically called when a library is unloaded.

fmemopen.3

mtk

Rewrote substantial parts of the page, and relicensed under GPL.

fseeko.3

Mike Frysinger

Add RETURN VALUE section.

getopt.3

mtk

Noted historical use of <stdio.h> to declare getopt().

qsort.3

mtk / Falk Hueffner

Clarify how strcmp() should be used as the 'compar'
function by providing an example.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=348072>

proc.5

mtk

Noted that /proc/mounts is pollable since kernel 2.6.15.

Documented /proc/PID/task.

Noted that the contents of /proc/PID/{cwd,exe,fd,root,task}
are not available if the main thread has terminated.

Senthil Kumar

Add pointer to random(4) for description of files under
/proc/sys/kernel/random.

udp.7

Stefan Puiu / mtk

Small rewording of discussion of SO_BSDCOMPAT
(add cross-ref to socket(7)).

==== Changes in man-pages-2.22 =====

Released: 2006-02-02

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Colin Tuckley <colin@tuckley.org>
Stefan Puiu <stefanpuiuro@yahoo.com>
Thomas Hood <jdthood@yahoo.co.uk>
Thorsten Kukuk <kukuk@suse.de>
Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

mmap.2

aeb / mtk

Noted that portable applications should specify fd as -1 when using MAP_ANONYMOUS.

Some rewriting of description of MAP_ANONYMOUS.

rt_sigreturn.2

Thorsten Kukuk

New link to sigreturn.2.

rt_sigsuspend.2

mtk

New link to sigsuspend.2.

waitid.2

mtk

Noted that waitid() does not set infop->si_uid field on most other implementations.

getopt.3

Walter harms / mtk

Make clear that when calling getopt_long() and there are no short options, then 'optstring' should be "", not NULL.

openpty.3

Thomas Hood / mtk

In glibc 2.0.92, openpty() was modified to preferably open
Unix 98 ptys instead of BSD ptys.

qsort.3

mtk

Small rewording under EXAMPLES.

strtol.3

strtoul.3

Stefan Puiu

s/string must begin/string may begin/

proc.5

mtk

Documented inotify files under /proc/sys/fs/inotify:
max_queued_events, max_user_instances, and max_user_watches.

===== Changes in man-pages-2.23 =====

Released: 2006-02-10

Contributors

The following people contributed notes, ideas, or
patches that have
been incorporated in changes in this release:

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Justin Pryzby <justinpryzby@users.sourceforge.net>

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Kurt Wall <kwall@kurtwerks.com>

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Urs Thuermann <urs@isnogud.escape.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

inotify_init.2

inotify_add_watch.2

inotify_rm_watch.2

Robert Love, with some additions by mtk.

New pages describing the inotify API.

mbind.2

get_mempolicy.2

set_mempolicy.2

Andi Kleen, with additional work by mtk

New pages describing the NUMA memory allocation policy API.

Drawn from the set at <ftp://ftp.suse.com/pub/people/ak/numa>.

rtc.4

Urs Thuermann, with additional work by mtk

New page describing the real-time clock driver.

inotify.7

mtk

Overview of the inotify API.

Changes to individual pages

clone.2

Andi Kleen

On x86, clone() should not be called through vsyscall,
but directly through "int \$0x80".

fcntl.2

mtk

Small wording changes.

Added cross-ref to inotify.7 under the description of dnotify.

kill.2

mtk / Britton Leo Kerin

Small wording change under NOTES to clarify
what happens when a process sends a signal to itself.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=350236>

mlock.2

mtk / Matthias Andree

Added BUGS txt on interaction between MCL_FUTURE and RLIMIT_MEMLOCK.

See the following LKML thread:

<http://marc.theaimsgroup.com/?l=linux-kernel&m=113801392825023&w=2>

"Rationale for RLIMIT_MEMLOCK"

msgop.2

mtk / Samuel

Thibault

Rewrote declaration of 'msgp' to be "void *" in response to <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=350884>
Various other wording fixes.

open.2

mtk

Clarify distinction between "file creation flags" and "file status flags".

read.2

Justin Pryzby

Add SEE ALSO for pread(2).

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351873>

sched_setaffinity.2

mtk

Major rewrite.

select.2

mtk

Added return types to prototypes for FD_SET(), FD_CLR(), FD_ZERO, and FD_ISSET().
Other minor wording changes.

read.2

mtk

Add SEE ALSO for pwrite(2).
(Analogous with read.2 change above.)

errno.3

Kurt Wall / mtk

Add Linux specific errors to this page.

localeconv.3

mtk

Added cross-ref to locale.7 for 'struct lconv' defn.
Other minor wording changes.

Martin (Joey) Schulze

Added SEE ALSO refs for nl_langinfo.3

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351831>

scanf.3

mtk / Justin Pryzby

Minor formatting & wording fixes.

setlocale.3

Martin (Joey) Schulze

Added SEE ALSO refs for nl_langinfo.3

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351831>

proc.5

mtk

Migrated description of inotify files to the new inotify.7 page.

ascii.7

Dan Jacobson / mtk

Add text describing characters 001 to 037.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=342173>

locale.7

mtk

Minor wording and formatting changes.

==== Changes in man-pages-2.24 =====

Released: 2006-02-17

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Luc Van Oostenryck <lkml@looxix.net>

Mike Frysinger <vapier@gentoo.org>

Samuel Thibault <samuel.thibault@ens-lyon.org>

Apologies

if I missed anyone!

New pages

get_kernel_syms.2
create_module.2
delete_module.2
init_module.2
query_module.2

FSF / mtk (with assistance of Luc Van Oostenryck)

man-pages finally gets pages for these system calls, several of which are obsolete in Linux 2.6.

Took the old GPLed pages dated 1996 and made a number of clean-ups and minor additions.

Global changes

various pages

mtk

Change "file name" to "filename"

Change "path name" to "pathname"

stpncpy.3
strstr.3
strcmp.3
toupper.3
strlen.3
strcpy.3
puts.3
strdup.3
strtok.3
isalpha.3
strspn.3
gets.3
strpbrk.3

mtk after a suggestion from Samuel Thibault

Added SEE ALSO pointers to wide character equivalent functions

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=351996>

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

clone.2
mtk

Remove duplicate CLONE_STOPPED text.

Commented out crufty text describing EINVAL error for the now obsolete CLONE_DETACHED flag.

Under CLONE_SIGHAND, noted that 'flags' must also include CLONE_VM if CLONE_SIGHAND is specified.

fcntl.2

mtk

Under ERRORS: Separate out EAGAIN error for locking mmaped files.

inotify_add_watch.2

mtk

Minor wording fix.

msgop.2

mtk

Documented the EAGAIN error for msgrcv().

fnmatch.3

Mike Frysinger / mtk

Expand explanation of FNM_PATHNAME.

lockf.3

Joerg Habenicht / mtk

Fix up discussion of EAGAIN/EACCESS errors.

==== Changes in man-pages-2.25 =====

Released: 2006-03-02

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Marten von Gagern <Martin.vGagern@gmx.net>

Michael

Haardt <michael@moria.de>

Michael Wronski <michal.wronski@gmail.com>

Apologies if I missed anyone!

New pages

mq_close.3

mq_getattr.3

mq_notify.3

mq_open.3

mq_receive.3

mq_send.3

mq_unlink.3

mtk

New pages describing POSIX message queue API.

posix_fallocate.3

mtk, after a suggestion by James Peach

New page describing posix_fallocate().

mq_overview.7

mtk

New page giving overview of the POSIX message queue API.

Changes to individual pages

lseek.2

Michael Haardt

Add a case to the EINVAL error text.

mtk

Various minor wording fixes

Added SEE ALSO referring to new posix_fallocate.3.

posix_fadvise.2

mtk

Added "#define _XOPEN_SOURCE 600" to prototype.

Added SEE ALSO referring to new posix_fallocate.3.

proc.5

mtk

Migrated information on POSIX message queues to new mqueue.7 page.

inotify.7

Marten von Gagern

Fix thinko: s/assuming a
non-blocking/assuming a blocking/

==== Changes in man-pages-2.26 =====

Released: 2006-03-21

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Justin Pryzby <justinpryzby@users.sourceforge.net>
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Steve Beattie <sbeattie@suse.de>
Walter Harms <walter.harms@informatik.uni-oldenburg.de>

Apologies if I missed anyone!

Global changes

clone.2
getdents.2
gettid.2
llseek.2
mmap.2.2
modify_ldt.2
pivot_root.2
quotactl.2
readdir.2
sysctl.2
syslog.2
tkill.2

mtk, aeb, Steve Beattie

Added comment in SYNOPSIS to note that syscall(2)
may be
preferable over _syscallN (see intro(2)).

Various minor formatting changes were done on a range of pages in Section 7. (No content was changed.)

New pages

openat.2

mtk

New page describing openat(2), added in kernel 2.6.16,
and some notes on rationale for the at*(2) system calls.

mbind.2

Andi Kleen, Christoph Lameter, mtk

Added MPOL_MF_MOVE and MPOL_MF_MOVE_ALL descriptions,
from numactl-0.9.2 man page.

Plus a few other smaller fixes.

fexecve.3

mtk

New page describing fexecve(3).

futimes.3

mtk

New page describing futimes(3).

Changes to individual pages

execve.2

mtk

Added SEE ALSO pointing to new fexecve.3.

intro.2

mtk, aeb, Steve Beattie

Added some notes on syscall(2) versus _syscall.

msgctl.2

msgget.2

msgop.2

mtk

Added SEE ALSO pointing to mq_overview.7.

open.2

mtk

Added SEE ALSO pointing to new

openat.2.

Split out part of the RETURN VALUE text into separate
NOTES section.

Modified wording referring to raw(8) to
indicate that this interface is deprecated.

poll.2

mtk

Added discussion of ppoll(2), which is new in 2.6.16.

ppoll.2

mtk

New link to poll.2.

recvmsg.2

sendmsg.2

mtk / Paul Brook

Added text to note that although POSIX says msg_controllen should be socklen_t, glibc actually uses size_t.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=356502> and the associated glibc bug report.

http://sourceware.org/bugzilla/show_bug.cgi?id=2448

mtk

Various formatting fixes.

select.2

mtk

Updated to reflect the fact that pselect() has been implemented in the kernel in 2.6.16; various other minor wording changes.

pselect() prototype needs "#define _XOPEN_SOURCE 600".

tempnam.3

Justin Pryzby

Clean up description of EEXIST error.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=357893>

unlink.2

mtk

Added a little extra text to clarify EISDIR vs EPERM.

utime.2

mtk

Added new SEE ALSO entry pointing to new futimes.3 page.

exec.3

mtk

Added SEE ALSO pointing to new fexecve.3.

shm_unlink.3

mtk

New link to shm_open.3 (should have been made when page was originally written).

swab.3

Walter Harms

Add needed "#define _XOPEN_SOURCE".

undocumented.3

mtk

Updated to remove a few function names that are now documented.

capabilities.7

mtk

Various changes to bring this page closer to current kernel versions.

inotify.7

mtk

Noted that glibc 2.4 is required to get glibc support for inotify.

mq_overview.7

mtk

Some rewording and added a few words about System V message queues.

netlink.7

Hasso Tepper

Substantial updates to various parts of this page.

mtk, Alain Portal

Minor fixes

pthread.7

mtk

Updated to reflect that the NPTL limitation that only the main thread could call setsid() and setpgid() was removed in 2.6.16.

raw.7

Hasso Tepper

Removed text implying that only in kernel 2.2 does IP_HDRINCL prevent datagrams from being fragmented.

socket.7

mtk

Documented SO_SNDBUFFORCE and SO_RCVBUFFORCE socket options, new in 2.6.14.

Placed socket options in alphabetical order.

Released: 2006-03-24

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Desai <janak@us.ibm.com>
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Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes

man7/*

mtk

Various minor formatting changes were done on a range of pages in Section 7. (No content was changed.)

New pages

unshare.2

mtk, with reference to documentation by Janak Desai
New page describing unshare(2), added in kernel 2.6.16.

Changes to individual pages

clone.2

fork.2

vfork.2

mtk

Added SEE ALSO pointing to new unshare.2.

mbind.2

Christoph Lameter

MPOL_MF_MOVE_ALL requires CAP_SYS_NICE not CAP_SYS_RESOURCE.

mremap.2

mtk

Clarified the description of MREMAP_FIXED and restructured the text to reflect the fact that this flag is exposed by glibc since version 2.4.

ptrace.2

Chuck Ebbert, with assistance from Daniel Jacobowitz,
Paolo (Blaisorblade) Giarrusso,
and Charles P. Wright;
after a suggestion from Heiko Carstens.

Document the following ptrace requests:

PTRACE_SETOPTIONS (2.4.6)

plus associated flags:

PTRACE_O_TRACESYSGOOD (2.4.6)

PTRACE_O_TRACEFORK (2.5.46)

PTRACE_O_TRACEVFORK (2.5.46)

PTRACE_O_TRACECLONE (2.5.46)

PTRACE_O_TRACEEXEC (2.5.46)

PTRACE_O_TRACEVFORKDONE (2.5.60)

PTRACE_O_TRACEEXIT (2.5.60)

PTRACE_SETSIGINFO (2.3.99-pre6)

PTRACE_GETSIGINFO (2.3.99-pre6)

PTRACE_GETEVENTMSG (2.5.46)

PTRACE_SYSEMU (since Linux 2.6.14)

PTRACE_SYSEMU_SINGLESTEP (since Linux 2.6.14)

sched_get_priority_max.2

sched_setscheduler.2

sched_setparam.2

mtk, Ingo Molnar

Modified to document SCHED_BATCH policy, new in kernel 2.6.16.

Text describing SCHED_BATCH was added to sched_setscheduler.2,

and was drawn in part from Ingo Molnar's description in the mail message containing the patch that implemented this policy.

Various other minor rewordings and formatting fixes.

proc.5

mtk, using text from Documentation/filesystems/proc.txt
Document /proc/sys/vm/drop_caches, new in kernel 2.6.16.
mtk, using information from ChangeLog-2.6.14.
Document /proc/PID/smmaps, new in kernel 2.6.14.

capabilities.7

mtk
Noted affect of CAP_SYS_NICE for mbind(MPOL_MF_MOVE_ALL).

pthread.7

mtk
Kernel 2.6.16 eliminated buggy behavior with respect to
the alternate signal stack.

==== Changes in man-pages-2.28 =====

Released: 2006-03-31

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Aleksandr Blokhin <sass@altlinux.ru>

Greg Johnson <gjohnson@lanl.gov>

Apologies if I missed anyone!

New pages

sem_post.3
sem_getvalue.3
sem_close.3
sem_open.3
sem_destroy.3
sem_wait.3
sem_unlink.3
sem_init.3
sem_overview.7

mtk
New pages describing the POSIX semaphores API.

These pages supersede and provide a superset of the information
in the glibc (3thr) "semaphores(3)" manual page.

Changes to individual pages

ppoll.2

Aleksandr Blokhin

Fix broken link.

ptrace.2

mtk

Wrapped long lines (no content changes).

semctl.2

semget.2

semop.2

mtk

Add SEE ALSO pointing to the new sem_overview.7 page.

elf.5

Greg Johnson

Removed SEE ALSO reference to nonexistent core(5).

===== Changes in man-pages-2.29 =====

Released: 2006-04-06

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Stefan Puiu

<stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Global changes

getrlimit.2

prctl.2

sigaction.2

elf.5

signal.7

mtk

Added SEE ALSO entry referring to new core.5 page.

New pages

mkdirat.2

mtk

New page describing mkdirat(2), new in 2.6.16.

mknodat.2

mtk

New page describing mknodat(2), new in 2.6.16.

core.5

mtk

New page describing core dump files.

mkfifoat.3

mtk

New page describing mkfifoat(3).

Changes to individual pages

accept.2

getpeername.2

getsockname.2

Michael Haardt / mtk

Document EINVAL error for 'len' argument < 0.

fcntl.2

mtk

Expanded discussion of mandatory locking.

getrlimit.2

mtk

Added BUGS text on 2.6.x handling of RLIMIT_CPU limit
of zero seconds. See

<http://marc.theaimsgroup.com/?l=linux-kernel&m=112256338703880&w=2>

mkdir.2

mtk

Added SEE ALSO entry referring to new mkdirat.2.

mknod.2

mtk

Added SEE ALSO entry referring to new mknodat.2.

open.2

mtk / Roberto Jimenoca

Clarified discussion of file types affected by O_NONBLOCK.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=360243>

openat.2

mtk

Rewrote NOTES describing rationale for openat().

Various other minor changes.

recv.2

Stefan Puiu

Removed a misleading cross-ref to socket.2.

shmop.2

mtk

Since 2.6.17-rc1, shmctl() gives the error EINVAL in a further circumstance: if shmaddr is not aligned on a page boundary.

unshare.2

mtk

Remove text saying that specifying invalid flags "is likely to cause compatibility problems" since the kernel now (2.6.17-rc1) contains an explicit check for invalid bits with a consequent EINVAL error.

mkfifo.3

mtk

Added SEE ALSO entry referring to new mkfifoat.3.

proc.5

mtk

Information on core_pattern and core_uses_pid has been

migrated to the new core.5 page.

ip.7

Stefan Puiu

Removed paragraph referring to obsolete ipchains / ipfw(4).

sem_overview.7

mtk

Add SEE ALSO entry referring to pthreads.7.

===== Changes in man-pages-2.30 =====

Released: 2006-04-17

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Karel Kulhavy <clock@twibright.com>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

New pages

linkat.2

mtk

New page describing linkat(), new in kernel 2.6.16

renameat.2

mtk

New page describing renameat(), new in kernel 2.6.16

symlinkat.2

mtk

New page describing symlinkat(), new in kernel 2.6.16

unlinkat.2

mtk

New page describing unlinkat(), new in kernel 2.6.16

Changes to individual pages

link.2

mtk

Added SEE ALSO entry pointing to new linkat.2 page.

openat.2

mtk

Added SEE ALSO entries pointing to new *at.2 pages.

rename.2

mtk

Added SEE ALSO entry pointing to new renameat.2 page.

rmdir.2

mtk

Added SEE ALSO entry pointing to new unlinkat.2 page.

symlink.2

mtk

Added SEE ALSO entry pointing to new symlinkat.2 page.

unlink.2

mtk

Added SEE ALSO entry pointing to new unlinkat.2 page.

termios.3

mtk / Karel Kulhavy

Document the feature test macros required to expose various flags.

Karel Kulhavy

Clarify 'speed' argument for cfsetispeed() text.

Karel Kulhavy / mtk

Note that LOBLK is not implemented on Linux.

mtk

Clarify arguments for cfsetispeed().

Various formatting changes.

full.4

Andre Lehovich

Add a sentence describing the purpose of full(4).

core.5

aeb / mtk

Rework text describing circumstances in which
core dump files are not produced.

mtk / Stefan Puiu

A core dump of a multithreaded process always includes the
PID in the core filename.

mtk / Stefan Puiu

Eliminate some accidentally duplicated text.

==== Changes in man-pages-2.31 =====

Released: 2006-05-02

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Ryan S. Arnold <rsa@us.ibm.com>
Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Page renamings

The following pages have been relocated into section 7, since that is their more natural home. SEE ALSO references in various other pages have been adjusted.

epoll.4

fifo.4

futex.4

complex.5

environ.5

(many pages outside man-pages actually **expect**
'environ' to be in Section 7.)

ipc.5

renamed to svipc.7

".so" link files have been created to link the old file locations to the new file locations. These links are added just to ensure that cross references from any other (non-man-pages) pages will remain valid; eventually these links will be removed.

New pages

fstatat.2

mtk

New page for fstatat(2), new in 2.6.16.

adjtime.3

mtk

New page for adjtime(3).

error.3

Justin Pryzby / mtk

New page describing error() and error_at_line()

Fixes <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=186307>

program_invocation_name.3

mtk

New page describing program_invocation_name and
program_invocation_short_name variables.

socketmark.3

mtk

New page for socketmark(3).

ftm.7

mtk

New page describing feature
test macros.

time.7

mtk

New page giving an overview of "time" on Linux systems.

Global changes

getgroups.2

wait4.2

chown.2

chdir.2

gettimeofday.2

initgroups.3

dirfd.3

mtk

Simplified wording around requirement for `_BSD_SOURCE`
feature test macro.

times.2

time.2

gettimeofday.2

getitimer.2

nanosleep.2

ctime.3

rtc.4

mtk

Added SEE ALSO referring to new time.7.

err.3

errno.3

perror.3

strerror.3

Justin Pryzby / mtk

Add SEE ALSO referring to new error.3.

getdate.3

printf.3

scanf.3

mtk

Added SEE ALSO entry referring to setlocale.3.

Changes to individual pages

accept.2

Mark Glines

Remove mention of SOCK_RDM from this page, since this socket type does not support accept()ing connections.

adjtimex.2

mtk

Modified text referring to adjtime(); added SEE ALSO for new adjtime.3 page.

fsync.2

mtk, after a note by Karel Kulhavy

Rewrote

most of the DESCRIPTION, as well as some other parts
the page, to clarify use and operation of, and rationale for,
fsync(2) and fdatsync(2).

getitimer.2

mtk

Updated discussion of maximum timer value to reflect the fact that the default jiffy is now 4 milliseconds.

Added text to note that current incorrect behavior of

normalizing tv_usec >= 1000000 will be repaired in a future kernel; applications should be fixed now.

gettimeofday.2

Karel Kulhavy

Point out more explicitly that 'tz' argument should normally be NULL.

mtk

Various other minor edits and formatting fixes.

mount.2

mtk

Since kernel 2.6.16, MS_NOATIME and MS_NODIRATIME are settable on a per-mount basis.

Detail exactly which mount flags can be changed on MS_REMOUNT.

nanosleep.2

mtk / Karel Kulhavy

Clarify RETURN VALUE discussion.

openat.2

mtk

Add SEE ALSO reference pointing to new fstatat.2.

program_invocation_short_name.3

mtk

New link to new program_invocation_name.3.

recv.2

mtk

Added SEE ALSO for new socketmark.3.

rmdir.2

Joshua Kwan / Martin (Joey) Schulze / mtk

Correct wording of EBUSY case.

mtk

Add "." case to ENOTEMPTY error

select.2

Karel Kulhavy

Note more clearly that fd_set arguments can be NULL.

mtk / Karel Kulhavy

Improve opening paragraph describing purpose of select().

mtk

Various other minor edits and formatting fixes.

semget.2

mtk / Nishanth Aravamudan

Add text to noting that the initial values of semaphores
in a new set are indeterminate.

shmget.2

mtk

Add text noting that contents of newly created segment are zero
values.

sigwaitinfo.2

mtk

Noted that all threads should block signal being waited for.

stat.2

Nishanth Aravamudan / mtk

Added NOTE that st_size is always returned as zero for
most

/proc files.

mtk

Add SEE ALSO reference pointing to new fstatat.2.

syscall.2

Justin Pryzby / mtk

Remove bogus BUGS text.

utime.2

mtk

Various minor changes.

confstr.3

mtk

Rewrote RETURN VALUE discussion.

Updated CONFORMING TO.

Removed BUGS.

ctanh.3

Martin (Joey) Schulze / mtk

Fix errors in DESCRIPTION.

ctime.3

mtk

The range of tm_sec is 0..60 (not 0..61).

error_at_line.3

error_message_count.3

error_on_per_line.3

error_print_progname.3

mtk

New links to new error.3.

fmemopen.3

mtk / Ryan S. Arnold

Add text noting that explicitly controlling output buffering may be useful to catch errors on output operations on an fmemopen() stream.

getline.3

Justin Pryzby

Add SEE ALSO pointing to getline.3.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=364772>

strtod.3

strtoul.3

mtk

Describe correct handling of errno in

order to

distinguish error from success after the call.

Added EXAMPLE section which points to strtol.3 which provides an example of the use of the analogous strtol(3).

strtol.3

mtk / Justin Pryzby

Add an example program.

mtk

Describe correct handling of errno in order to distinguish error from success after the call.

tmpfile.3

Reuben Thomas

DESCRIPTION does not need to say "temporary file name" just "temporary file", since the name is in any case unavailable to the user.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=363518>

mtk

In DESCRIPTION:

Change /automatically deleted when the program terminates normally/
to /automatically deleted when the program terminates/
since deletion occurs on both normal and abnormal termination.

ip.7

Karel Kulhavy / mtk

Various wording improvements and clarifications.

signal.7

mtk / Ulrich Drepper

Add text noting that a signal's disposition is process-wide,
shared by all threads.

mtk

Add text on changing signal dispositions.

Add text on "signal mask and pending signals".

Other minor edits.

time.7

mtk

Added SEE ALSO for new adjtime.3.

ld.so.8

Justin Pryzby

Remove bogus duplicate line.

===== Changes in man-pages-2.32 =====

Released: 2006-05-13

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Paul Brook <paul@nowt.org>

Pavel Heimlich <tropikhajma@seznam.cz>

Apologies if I missed anyone!

New pages

faccessat.2

mtk

New page for faccessat(2), new in 2.6.16.

fchmodat.2

mtk

New page for fchmodat(2),

new in 2.6.16.

fchownat.2

mtk

New page for fchownat(2), new in 2.6.16.

futimesat.2

mtk

New page for futimesat(2), new in 2.6.16.

Changes to individual pages

access.2

mtk

Add SEE ALSO reference pointing to new faccessat.2 page.

capget.2

mtk

Reworded to reflect that capabilities are per-thread.

chmod.2

mtk

Add SEE ALSO reference pointing to new fchmodat.2 page.

chown.2

mtk

Add SEE ALSO reference pointing to new fchownat.2 page.

mmap.2

mtk

Updated discussion of MAP_NORESERVE since it is no longer restricted to MAP_PRIVATE mappings.

Add reference to discussion of /proc/sys/vm/overcommit_memory in proc.5.

openat.2

mtk

Add SEE ALSO reference pointing to new faccessat.2, fchmodat.2, fchownat.2, futimesat.2 pages.

shmget.2

mtk

Document SHM_NORESERVE flag, new in 2.6.15.

truncate.2

Paul Brook / mtk

Expand

text noting that ftruncate()/truncate() may fail if
asked to extend a file beyond its current length.
Add EPERM error.

utime.2

mtk

Add SEE ALSO reference pointing to new futimesat.2 page.

fopen.3

Justin Pryzby / mtk

Document 'm' (mmap) flag.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=365754>

mtk

Document 'c' (notcancel) flag.

futimes.3

mtk

Add SEE ALSO reference pointing to new futimesat.2 page.

qsort.3

Johannes Weiner

Add missing "const" qualifies to cast in EXAMPLE.

mtk

Slight rewording of comments in EXAMPLE.

termios.3

Karel Kulhavy

Clarify meaning of IXANY.

Clarify relationship of MIN with VMIN and TIME with VTIME.

mtk

Noted that CIBAUD, OFDEL, and DELECHO are not implemented
on Linux.

Added explanatory paragraph for phrases "not in POSIX" and
"XSI".

capabilities.7

mtk

Reworded to reflect that capabilities

are per-thread.

Add ioprio_set() to list of operations permitted by
CAP_SYS_NICE.

Add ioprio_set() IOPRIO_CLASS_RT and IOPRIO_CLASS_IDLE
scheduling classes to list of operations permitted by
CAP_SYS_ADMIN.

Note effects of CAP_SYS_NICE for migrate_pages().

==== Changes in man-pages-2.33 =====

Released: 2006-05-23

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Justin Pryzby <justinpryzby@users.sourceforge.net>
Martin Osvald" <martin.osvald@gmail.com>
Stefan Puiu <stefanpuiuro@yahoo.com>

Apologies if I missed anyone!

Page renamings

ftm.7

mtk / Stefan Puiu

renamed to the more suggestive feature_test_macros.7

New pages

mq_getsetattr.2

mtk

New page briefly describing mq_getsetattr(2), the system call that underlies

mq_setattr(3) and mq_getattr(3).

rpmatch.3

Justin Pryzby / mtk

New page for rpmatch(3).

Changes to individual pages

chmod.2

mtk

Remove mention of non-standard S_IREAD, S_IWRITE, S_IEXEC.

POSIX does now document ELOOP.

open.2

mtk

Remove mention of non-standard S_IREAD, S_IWRITE, S_IEXEC.

mmap.2

Justin Pryzby

Add mincore(2) to SEE ALSO.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367401>

msync.2

Justin Pryzby

Note that EINVAL can also be caused by

flags == MS_SYNC | MS_ASYNC.

sched_setaffinity.2

mtk

Add CPU_ISSET, CPU_CLR, CPU_SET, CPU_ZERO to NAME section.

select.2

mtk

Various minor changes.

select_tut.2

mtk

Removed much material that is redundant with select.2.

Various other changes.

umask.2

mtk

Substantial rewrite of description of 'mask'.

CPU_ISSET.3

CPU_CLR.3

CPU_SET.3

CPU_ZERO.3

mtk

New links to sched_setaffinity.2

FD_CLR.3

FD_ISSET.3

FD_SET.3

FD_ZERO.3

mtk

New links to select.2.

fts.3

Justin Pryzby

Add SEE also referring to ftw.3.

ftw.3

Justin Pryzby

Add SEE also referring to fts.3.

getline.3

Justin Pryzby

Various minor clarifications.

mkstemp.3

mtk

Clarify that O_EXCL is an open(2) flag.

mq_open.3

Martin Osvald

Fix prototype declaration for 'attr'.

mq_notify.3

Martin Osvald

s/sigev_signal/sigev_signo/

mq_setattr.3

mtk

New link to mq_getattr.3.

mq_timedreceive.3

mtk

New link to mq_receive.3.

mq_timedsend.3

mtk

New link to mq_send.3.

setlocale.3

Justin Pryzby

Added SEE ALSO referring to rpmatch.3.

sigandset.3

sigisemptyset.3

sigorset.3

mtk

New links to sigsetops.3.

stdio.3

Justin Pryzby

Added SEE ALSO referring to unlocked_stdio.3

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367667>

strchr.3

Justin Pryzby

Add description of strchrnul().

strchrnul.3

mtk

New link to strchr.3.

undocumented.3

Justin Pryzby / mtk

Updated to remove some functions that don't exist, and therefore don't need to be documented.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367671>

unlocked_stdio.3

Justin Pryzby

Added SEE ALSO referring to stdio.3

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=367667>

mq_overview.7

mtk

Added section describing relationship between library interfaces and system calls.

Added SEE ALSO referring to new mq_getsetattr.2.

feature_test_macros.7

Stefan Puiu

Fix typo: s/_POSIX_C_SOURCE/_POSIX_SOURCE/

==== Changes in man-pages-2.34 =====

Released: 2006-06-20

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Walter Harms <wharms@bfs.de>

Apologies if I missed anyone!

Global changes

tzselect.8

zdump.8

zic.8

mtk, Joey

Added header comment noting that these pages are in the public domain.

bindresvport.3

getrpcent.3

getrpcport.3

rpc.3

xdr.3

rpc.5

mtk, aeb, Joey

Added following to top of these pages to clarify origin and license:

.\ " This page

was taken from the 4.4BSD-Lite CDROM (BSD license)

New pages

ioprio_set.2

Eduardo Madeira Fleury, with edits by mtk, and review by Jens Axboe

New page for ioprio_get(2) and ioprio_set(2), new in 2.6.13.

offsetof.3

Justin Pryzby / mtk

New page describing offsetof() macro.

Changes to individual pages

_exit.2

mtk

Add SEE ALSO referring to exit_group.2.

acct.2

mtk

Add SEE ALSO referring to acct.5.

fcntl.2

mtk

Explicitly mention term "dnotify" in discussion of F_NOTIFY.

inotify_add_watch.2

Aristeu Sergio Rozanski Filho / mtk

s/<inotify.h>/<sys/inotify.h>/ in prototypes.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369960>

mtk

Renamed argument from 'path' to 'pathname'.

Reword introductory paragraph to clarify that

inotify_add_watch() may also modify an existing watch item.

mtk

The EINVAL error can also occur if 'fd' is

not an inotify

file descriptor.

mtk

Moved BUGS section from this page to inotify.7.

inotify_init.2

Aristeu Sergio Rozanski Filho / mtk

s/<inotify.h>/<sys/inotify.h>/ in prototypes.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369960>

inotify_rm_watch.2

Aristeu Sergio Rozanski Filho / mtk

s/<inotify.h>/<sys/inotify.h>/ in prototypes.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369960>

mtk

The EINVAL error can also occur if 'fd' is not an inotify

file descriptor.

ioprio_get.2

mtk

New link to new ioprio_set.2.

mmap.2

mtk

Add SEE ALSO referring to remap_file_pages.2.

mount.2

Kenichi Okuyama

s/MNT_FORCE/MNT_EXPIRE/ under EINVAL error.

mremap.2

Mike Frysinger

s/unsigned long flags/int flags/ in SYNOPSIS.

pipe.2

mtk

Add SEE ALSO referring to popen.3.

posix_fadvise.2

mtk

Add SEE ALSO referring to readahead.2.

read.2

mtk

SEE ALSO for readv should refer to Section 2, not 3.

readahead.2

mtk

Add SEE ALSO referring to posix_fadvise.2.

send.2

Peter Eiserloh

Fix missing arguments in statement about equivalent send()
and sendto() calls.

setsid.2

mtk

Add SEE ALSO referring to tcgetsid.3.

shmctl.2

mtk

Minor wording change at start of DESCRIPTION.

stat.2

mtk

Add SEE ALSO referring to access.2.

statfs.2

mtk

Relocated "Note" about f_fsid.

write.2

mtk

SEE ALSO for writev should refer to Section 2, not 3.

__setfpucw.3

mtk, Joey

Added license statement (GPL) after consultation with
Joerg Scheurich.

assert_perror.3

Justin Pryzby

Add #define _GNU_SOURCE to prototype

difftime.3

Joey

Added note about time_t representation on other systems.
Added CONFORMING TO.

ftw.3

Justin Pryzby / mtk

A fairly major revision...

Document FTW_ACTIONRETRVAL;

include .SH "RETURN VALUE";

Reorganized and rewrote much of the page

Added an example program.

inet.3

Marc Lehmann

Fixed typo in NOTES.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=370277>

isalpha.3

Joey

Updated CONFORMING TO.

mktemp.3

mtk

Updated CONFORMING TO.

printf.3

Walter Harms

Add documentation of %m.

readdir.3

mtk

Added SEE ALSO referring to ftw.3.

re_comp.3

mtk

Note that these functions are obsolete in favor of regcomp(3).

Justin Pryzby

Add SEE ALSO referring to regcomp.3

scandir.3

Mats Wichmann

Reworded CONFORMING TO statement on scandir() and alphasort().

strchr.3

Stefan Puiu

Fix prototype for strchrnul().

strtoul.3

Stefan Puiu

Add text clarifying treatment of strings starting with minus sign.

tmpnam.3

mtk, after comments by Justin Pryzby

Add text noting the need to use open(O_EXCL).

mtk

Clarify discussion of use of free(3).

Various other minor changes to text and formatting.

tmpfile.3

mtk

Updated CONFORMING TO.

tmpnam.3

mtk, after comments by Justin Pryzby

Add text noting the need to use open(O_EXCL).

Updated CONFORMING TO.

undocumented.3

mtk

Remove offsetof(), which is now documented.

null.4

mtk

Added SEE ALSO referring to full.4.

console_codes.4

Thomas Dickey

Various improvements and corrections.

epoll.7

mtk

Added CONFORMING TO section mentioning FreeBSD kqueue and Solaris /dev/poll.

feature_test_macros.7

mtk

Added pointer to location of LFS specification.

futex.7

mtk, after suggestion by Joey.

Added license statement to page, after discussion with original author, bert hubert.

mtk

Reformat long lines; no content changes.

inotify.7

mtk

'path' argument renamed to 'pathname'.

A few minor rewordings.

Added BUGS section describing a couple of bugs.

ip.7

mtk

Add SEE ALSO referring to byteorder.3.

man.7

Justin Pryzby

Add SEE ALSO referring to groff_man(7).

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=369253>

==== Changes in man-pages-2.35 =====

Released: 2006-07-06

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Global
changes

Typographical or grammatical errors have been corrected in several places.

New pages

sync_file_range.2

Andrew Morton / mtk

New page for sync_file_range(2), new in kernel 2.6.17.

Changes to individual pages

adjtime.3

mtk

Noted BUG that occurs if 'delta' is specified as NULL.

See http://bugzilla.kernel.org/show_bug.cgi?id=6761

bind.2

Stefan Puiu

Add EADDRNOTAVAIL error.

Stefan Puiu / mtk

Make example code more complete.

epoll_ctl.2

mtk / Davide Libenzi

Added EPOLLRDHUP description.

mtk

Added SEE ALSO referring to poll.2.

poll.2

mtk / Davide Libenzi

Added POLLRDHUP description.

mtk

The correct header file is <poll.h>, not <sys/poll.h>.

Rewrote and reformatted various other parts.

readlink.2

mtk

Nowadays, readlink() returns 'ssize_t', as required in POSIX.1-2001.

wavelan.4

mtk

Added license statement.

nscd.conf.5

Thorsten Kukuk

Add documentation for various new fields.

passwd.5

Horacio Rodriguez Montero

Add explanation of 'x' character in 'password' field.

mtk

The proper name of "*" is "asterisk" not "star".

tcp.7

Johan Lithander

Update RFC reference for ECN.

Andi Kleen

Add sentence on "low memory" limit for tcp_mem on 32-bit systems.

==== Changes in man-pages-2.36 =====

Released: 2006-07-11

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Justin Pryzby <justinpryzby@users.sourceforge.net>

Kyle McMartin <kyle@mcmartin.ca>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

MAINTAINING

mtk

How to maintain man-pages.

TODO

mtk

Things that it would be nice to get done for man-pages one day.

scripts/FIXME_list.sh

mtk

This script, intended for use by manual page maintainers, displays the FIXMEs in the manual page source files.

Changes to individual pages

fdatasync.2

fsync.2

mtk

Added SEE ALSO referring to sync_file_range.2.

sendfile.2

mtk / Jens Axboe

Fix description of 'offset' argument to explain the case where 'offset' is NULL.

ferror.3

Justin Pryzby

Add SEE ALSO referring to fdopen.3.

intro.3

mtk

Removed information about Section 3 subsections -- it doesn't reflect current reality, and probably never has.

Added SEE ALSO referring to intro.2.

tcp.7

Kyle McMartin

Correction: tcp_window_scaling is ENabled by default.

==== Changes in man-pages-2.37 =====

Released: 2006-08-02

Contributors

The

following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Ivana Varekova <varekova@redhat.com>

Thomas Huriaux <thomas.huriaux@gmail.com>

Ville Skyttä <ville.skytta@iki.fi>

Apologies if I missed anyone!

Global changes

Thomas Huriaux / mtk

Various formatting problems found as a result of reviewing the following command were fixed.

```
for a in $(wc -l man?/*.* | awk '$1 > 2 {print $2}' | grep -v total); do
  echo $a; groff -Tascii -wmac -mman $a > /dev/null;
done 2>&1 | less
```

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=378544>

Typographical or grammatical errors have been corrected in several places.

New pages

readlinkat.2

mtk (after prompting from Ivana Varekova)

New page for readlinkat(2),

new in kernel 2.6.16.

Changes to individual pages

ldd.1

Ville Skyttä

Document "-u" option.

chdir.2

mtk

Noted effect of fork() and execve() on current working directory.

chroot.2

mtk

Noted effect of fork() and execve() on root directory.

epoll_ctl.2

Frank van Viegen / mtk

Fix description of EBADF error.

execve.2

mtk

Add text noting that effective IDs are copied to saved set-IDs during execve().

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=379297>

getitimer.2

mtk

Noted effect of fork() and execve() on interval timers.

getrlimit.2

mtk

Noted effect of fork() and execve() on resource limits.

getpriority.2

mtk

Noted effect of fork() and execve().

inotify_add_watch.2

mtk

Some rewording; included text describing required file permissions.

intro.2

mtk

Revised description of standards under CONFORMING TO.

makecontext.3

Helmut Grohne / mtk

Point out that args following 'argc' are int.

mtk

Added an example program.

Various minor wording fixes.

mmap.2

mtk

Expand description of MAP_POPULATE.

mtk, after prompting by Dean Gaudet

Expand description MAP_NONBLOCK.

mtk

Various minor formatting fixes.

openat.2

mtk

Added SEE ALSO linking to readlinkat.2.

nanosleep.2

mtk

Noted buggy behavior in Linux 2.4 and earlier when
nanosleep() is restarted after receiving stop+SIGCONT signals.

nice.2

mtk

Very minor rewording.

readlink.2

mtk

Added SEE ALSO linking to readlinkat.2.

sched_setscheduler.2

mtk

Noted preservation of scheduling parameters across execve().

setpgid.2

mtk

Noted effect of fork() and execve() on process group ID.

setsid.2

mtk

Noted effect of fork() and execve() on session ID.

umask.2

mtk

Noted effect
of fork() and execve() on umask.

atexit.3

mtk

Noted inheritance of registrations across fork().

capabilities.7

mtk

Added material on privileges required for move_pages().

CLONE_NEWNS needs CAP_SYS_ADMIN.

keyctl(KEYCTL_CHOWN) and keyctl(KEYCTL_SETPERM) require

CAP_SYS_ADMIN.

==== Changes in man-pages-2.38 =====

Released: 2006-08-03

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>

Apologies if I missed anyone!

Global changes

Most pages

mtk

There was a major reworking of the CONFORMING TO sections in most manual pages.

* generally try to rationalize the names used for standards.

The preferred names are now documented as the head words of the list in standards(7). For the future: there is probably no

need to talk about anything more than

C89, C99, POSIX.1-2001 (or later), xBSD, and SVr4.

(In particular, I've eliminated most references to XPG and SVID, replacing them with references to SUS or SVr4.)

* eliminate discussion of errors that can occur on other systems. This information exists only patchily in the manual pages, is probably of limited use, is hard to maintain, and was in some cases simply wrong (and probably always was).

* Tried to ensure that those interfaces specified in C99 or

POSIX.1-2001 are marked as such in their manual pages.

intro.1
intro.2
intro.3
intro.4
intro.5
intro.7
feature_test_macros.7

mtk
Added SEE ALSO referring to new standards.7.

Various pages
mtk
Changed instances of "HP UX" to "HP-UX".

Various pages
mtk
Changed instances of "DG-UX" to "DG/UX"

Typographical or grammatical errors have been corrected in several places.

New pages

standards.7
mtk
Based on material taken from intro.2, but expanded to include discussion of many additional standards.

Changes to individual pages

bind.2
mtk
Minor wording change for ENOTSOCK error.

intro.2
mtk
Removed information on standards to new standards.7.

==== Changes in man-pages-2.39 =====

Released: 2006-08-05

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>

Apologies if I missed anyone!

Global changes

Various pages

mtk

Updated CONFORMING TO and/or standards references
in various pages that were missed for 2.38.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

chdir.2

mtk

_XOPEN_SOURCE=500 also
gets fchdir() prototype.

standards.7

mtk

Added a few more standards, and expand some explanations.

===== Changes in man-pages-2.40 =====

Released: 2006-09-04

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Samuel Thibault <samuel.thibault@ens-lyon.org>
Toralf Förster <toralf.foerster@gmx.de>

Apologies if I missed anyone!

Global changes

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
futimesat.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
symlinkat.2

mtk (after a note by Alain Portal)

Make naming of 'pathname' argument consistent; various
minor rewordings.

Typographical or grammatical errors have been corrected in several
places.

Changes
to individual pages

clone.2

mtk

Reinstate text on CLONE_DETACHED, and add a few words.

execve.2

mtk

Added list of process attributes that are not preserved on exec().

fork.2

mtk, after a suggestion by Christoph Hellwig

Greatly expanded, to describe all attributes that differ
in parent and child.

linkat.2

mtk

Document AT_SYMLINK_FOLLOW (new in 2.6.18).

set_mempolicy.2

mtk / Andi Kleen

Memory policy is preserved across execve().

write.2

mtk / Alain Portal

SEE ALSO for writev should refer to Section 2, not 3.

(i.e., really make the change that was logged in 2.34)

getcwd.3

Samuel Thibault / mtk

Fix SYNOPSIS and CONFORMING TO text for getwd() and
get_current_dir().

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=381692>

proc.5

Chuck Ebbert

Document /proc/PID/auxv.

capabilities.7

Alain Portal

Restore

text accidentally deleted in 2.39.

regex.7

mtk / Alain Portal

Change references to "1003.2" to "POSIX.2".

==== Changes in man-pages-2.41 =====

Released: 2006-10-12

Contributors

The following people contributed notes, ideas, or patches that have
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Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes

Typographical

or grammatical errors have been corrected in several places.

New pages

splice.2

tee.2

vmsplice.2

Jens Axboe / Michael Kerrisk

See also:

<http://lwn.net/Articles/118760/>

<http://lwn.net/Articles/178199/>

<http://lwn.net/Articles/179492/>

<http://kerneltrap.org/node/6505>

<http://lwn.net/Articles/179434/>

Changes to individual pages

ldd.1

Stefan Puiu

Note glibc version where "ldd -u" appeared.

execve.2

mtk

The PR_SET_NAME setting is not preserved across an execve().

fork.2

mtk

Mappings marked with madvise(MADV_DONTFORK) are not inherited by child.

getdtablesize.2

mtk

Noted that `sysconf(_SC_OPEN_MAX)` is preferred in portable applications.

getpagesize.2

mtk

Noted that `sysconf(_SC_PAGE_SIZE)` is preferred in portable applications.

`_SC_PAGE_SIZE` is available on most systems.

madvise.2

mtk

Document `MADV_REMOVE`, new in 2.6.16.

Document `MADV_DONTFORK` / `MADV_DOFORK`, new in 2.6.16.

mount.2

mtk / Trond Myklebust

`MNT_FORCE` can cause data loss.

mmap.2

mtk

Added note on Linux's old (pre-2.6.12) buggy treatment of `length==0`.

Justin Pryzby / mtk

Added some `EINVAL` errors.

mremap.2

mtk

Remove superfluous `"#include <unistd.h>"` from SYNOPSIS.

msync.2

mtk

Added `EBUSY` error for case where `MS_INVALIDATE` is applied to a locked region.

posix_fadvise.2

Andrew Morton

Since 2.6.18, `POSIX_FADV_NOREUSE` is a no-op.

prctl.2

Marcel Holtmann / mtk

Since kernel 2.6.18, setting 2 for `PR_SET_DUMPABLE` is no longer possible.

Guillem Jover

Updated Linux versions where the options were introduced.

Added `PR_SET_TIMING`, `PR_GET_TIMING`, `PR_SET_NAME`, `PR_GET_NAME`,

PR_SET_UNALIGN, PR_GET_UNALIGN, PR_SET_FPEMU, PR_GET_FPEMU,
PR_SET_FPEXC, PR_GET_FPEXC.

Michael Kerrisk

Document PR_GET_ENDIAN and PR_SET_ENDIAN.

remap_file_pages.2

mtk

Add "#define _GNU_SOURCE" to SYNOPSIS.

sync_file_range.2

mtk

Noted that sync_file_range() appeared in kernel 2.6.17.

vfork.2

mtk

Noted interactions with fork handlers in multithreaded programs.

wait4.2

mtk

Added feature test macros to SYNOPSIS.

clog2.3

mtk / aeb / Kevin Ryde

Fix broken text in description.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=386214>

clog10.3

Kevin Ryde

Fix broken text in description.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=386214>

mq_receive.3

Britton Leo Kerin

Fix return type in SYNOPSIS; should be "ssize_t" not "mqd_t".

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=387551>

qsort.2

Hrvoje Niksic

Fix wording referring to the use of strcmp() in 'compar'
function.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=391402>

sendfile.2

mtk

Added SEE ALSO referring to new splice.2 page.

termios.3

mtk

Documented IUTF8 (which was new in kernel 2.6.4).

tzset.3

mtk

Added some TZ examples.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=386087>

proc.5

mtk

Added delayacct_blkio_ticks (new in 2.6.18) to /proc/PID/statm.

ip.7

Stuart MacDonald / Andi Kleen

Fix discussion for TCP error queue /IP_RECVERR on TCP.

pthread.7

mtk

Noted effect of RLIMIT_STACK resource limit for NPTL.

socket.7

Senthil Kumar

Place socket options in alphabetical order.

==== Changes in man-pages-2.42 =====

Released: 2006-11-24

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andrew Morton <akpm@osdl.org>

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Doug Goldstein <cardoe@gentoo.org>

Eduard Bloch

<blade@debian.org>

Evan Teran <eteran@alum.rit.edu>

Pavel Heimlich <tropikhajma@seznam.cz>

Petr Baudis <pasky@ucw.cz>

Randy Dunlap <rdunlap@xenotime.net>

Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

brk.2

Evan Teran / mtk

Add text describing behavior of the Linux brk() system call and point out that the glibc brk() wrapper provides different behavior.

mtk

Note that sbrk() is implemented as a library function in glibc that calls the brk() system call.

futex.2

mtk

FUTEX_FD is scheduled for removal in June 2007.

getaddrinfo.3

getnameinfo.3

Ulrich Drepper, with edits by mtk

Add text describing Internationalized Domain Name extensions.

open.2

mtk / Eduard Bloch

Fix description of O_LARGEFILE to mention required

feature test

macros.

ptrace.2

Chuck Ebbert

Since Linux 2.6.18, the PID of the new process is also available for PTRACE_EVENT_VFORKDONE.

syslog.3

Doug Goldstein

Fix header file required for vsyslog() in SYNOPSIS.

wcwidth.3

Petr Baudis

Fix CONFORMING TO.

core.5

mtk

Linux 2.4.21 added core_pattern (which was already in 2.6).
Noted a few more reasons why a core dump file might not
be produced.

==== Changes in man-pages-2.43 =====

Released: 2006-11-29

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andi Kleen <ak@suse.de>

David Brownell <david-b@pacbell.net>

Eduard Bloch <blade@debian.org>

Egmont Koblinger <egmont@uhulinux.hu>

Reuben Thomas <rrt@sc3d.org>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several
places.

Changes

to individual pages

ioperm.2

mtk

Clarify discussion of privilege requirements.
Added ENOMEM to ERRORS.

open.2

mtk / Eduard Bloch

Clarify description of O_LARGEFILE.

crypt.3

Egmont Koblinger

Make description of MD5 output string less ambiguous.

strerror.3

Reuben Thomas

Add C99 to CONFORMING TO; see

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=400634>

rtc.4

David Brownell

Update the RTC man page to reflect the new RTC class framework:

- Generalize ... it's not just for PC/AT style RTCs, and there may be more than one RTC per system.
- Not all RTCs expose the same feature set as PC/AT ones; most of these ioctls will be rejected by some RTCs.
- Be explicit about when {A,P}IE_{ON,OFF} calls are needed.
- Describe the parameter to the get/set epoch request; correct the description of the get/set

frequency parameter.

- Document RTC_WKALM_{RD,SET}, which don't need AIE_{ON,OFF} and which support longer alarm periods.
- Hey, not all system clock implementations count timer irqs any more now that the new RT-derived clock support is merging.

proc.5

mtk

s/lseek(3)/lseek(2)/ under /proc/PID/mem entry.

feature_test_macros.7

mtk / Eduard Bloch

The LFS spec is now at <http://opengroup.org/platform/lfs.html>

raw.7

udp.7

Andi Kleen

Describe the correct default for UDP/RAW path MTU discovery.

==== Changes in man-pages-2.44 =====

Released: 2007-04-04

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andre Majorel <aym-naideb@teaser.fr>
Benjamin Gilbert <bgilbert@cs.cmu.edu>
Carlo Marcelo Arenas Belon <carenas@sajinet.com.pe>
Chuck Ebbert <76306.1226@compuserve.com>
Ivana Varekova <varekova@redhat.com>
Jakub
Jelinek <jakub@redhat.com>
John Ward <jward@idealcorp.com>
Jorge Peixoto de Morais Neto <jorgepeixotomorais@gmail.com>
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Julien Cristau <jcristau@debian.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>
Martín Ferrari <martin.ferrari@gmail.com>
Mike Frysinger <vapier@gentoo.org>
Nick Piggin <npiggin@suse.de>
Nick Pollitt <npollitt@mvista.com>
Nicolas François <nicolas.francois@centraliens.net>
Pádraig Brady <P@draigBrady.com>
Premysl Hruby <dfenze@gmail.com>
Reuben Thomas <rrt@sc3d.org>
Samuel Thibault <samuel.thibault@ens-lyon.org>
Serge E. Hallyn <serge@hallyn.com>
Thomas Huriaux <thomas.huriaux@gmail.com>
Timo Sirainen <tss@iki.fi>
Val Henson <val_henson@linux.intel.com>

Apologies if I missed anyone!

New pages

termio.7

mtk, after a bit of prodding by Reuben Thomas
A brief discussion of the old System V termio interface,
with pointers to pages that will contain the information
that the reader
probably wants.

scripts/find_repeated_words.sh

mtk
Find consecutive duplicate words in a man page, some of

which may be grammar errors.

Global changes

Various pages

Justin Pryzby / mtk

Add "#define _ATFILE_SOURCE" to SYNOPSIS in following pages:

faccessat.2

fchmodat.2

fchownat.2

fstatat.2

futimesat.2

linkat.2

mkdirat.2

mknodat.2

openat.2

readlinkat.2

renameat.2

symlinkat.2

unlinkat.2

mkfifoat.3

Various pages

mtk

Various references to "getty" were changed to "mingetty", since that is the manual page more likely to be found on current systems.

Various pages

mtk, after a suggestion by Reuben Thomas <rrt@sc3d.org>

Updated various header pages to accurately reflect which functions are and are not part of C89. Also fixed/improved

a few other

CONFORMING TO entries.

Various pages

mtk

s/Unices/Unix systems/ on the 5 pages where it appears.

Various pages

mtk

Wrapped long source lines in the following files

getsockopt.2

mknodat.2

io_setup.2

select_tut.2

select.2

readlinkat.2

io_cancel.2
syslog.2
wcsncat.3
getipnodebyname.3
cmsg.3
wcpncpy.3
wcsrtombs.3
wcstok.3
fgetwc.3
wmemcmp.3
wcssp.3
div.3
modf.3
stdio_ext.3
ctermid.3
des_crypt.3
wcsncmp.3
wmemchr.3
wcsstr.3
wmemcpy.3
wprintf.3
wcsnrtombs.3
termios.3
erf.3
ceil.3
lround.3
nextafter.3
wcsncpy.3
wmemset.3

getw.3
console_ioctl.4
sk98lin.4
environ.7
unix.7
time.7

Various pages

mtk

Added a SEE ALSO reference for `feature_test_macros(7)` to all pages where a feature test macro appears in the SYNOPSIS.

Various pages

mtk

Added SEE ALSO entry pointing to `time.7`

alarm.2
nanosleep.2
ualarm.3

usleep.3

Various pages

Justin Pryzby / mtk

Fixed consecutive duplicate word typos on a number of pages.

Typographical or grammatical errors have been corrected in several places. (Special thanks to Nicolas François!)

Changes to individual pages

access.2

mtk

Since 2.6.20, access() honors the MS_NOEXEC mount flag.

Jorge Peixoto de Moraes Neto / mtk

Improve ENOENT description.

clone.2

mtk

Added some detail to the prototype.

Added some notes on IA-64's clone2().

epoll_ctl.2

mtk

Add text to note that EPOLLRDHUP appeared in kernel 2.6.17.

faccessat.2

Justin Pryzby

Various fixes as per

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=411177>

* s/effective/real/ in description text.

* added <fcntl.h> to synopsis.

* various other changes.

getrlimit.2

mtk / Fedora downstream patches; thanks to Ivana Varekova

Added a few words to note that RLIMIT_NPROC is really a limit on threads.

io_cancel.2

io_destroy.2

io_getevents.2

io_setup.2

io_submit.2

Fedora downstream patches; thanks to Ivana Varekova

s%linux/aio.h%libaio.h% in SYNOPSIS.
Changed return type from "long" to "int".

mbind.2

Samuel Thibault / mtk

Fix EINVAL description.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=411777>

mincore.2

Nick Piggin

Kernel 2.6.21 fixes several earlier bugs in mincore().

Nick Pollitt

Remove words "of a file" -- mincore() is describing

memory residence information, not properties of a file.

mtk

Rewrote various parts to make the page clearer.

mmap.2

mtk

Rewrote and reorganized various parts to be clearer.

Taken from Fedora downstream patches; thanks to Ivana Varekova

Removed text stating that mmap() never returns 0; that's
not true.

mount.2

mtk / Val Henson

Document MS_RELATIME, new in Linux 2.6.20.

open.2

Andre Majorel / mtk

On Linux, the error returned when opening a large file on a
32-bit system is actually EFBIG, not EOVERFLOW.

posix_fadvise.2

Pádraig Brady

Fix RETURN VALUE description: returns error number of failure.

rename.2

mtk / Timo Sirainen

Various improvements to DESCRIPTION.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=416012>

semop.2

mtk

If sops contains multiple operations, then these are performed
in array order. All Unix systems that I know of do this,

and some Linux applications depend on this behavior. SUSv3 made no explicit statement here, but SUSv4 will explicitly require this behavior.
Small rewording of explanation of "atomically".

signal.2

Nicolas François

Fix incorrect argument name in DESCRIPTION.

mtk

Small wording improvement.

socket.2

Nicolas François

Add reference to ipv6.7 page.

socketcall.2

Nicolas François

Fix .TH line.

splice.2

Benjamin Gilbert

Fix inconsistent argument names in SYNOPSIS and DESCRIPTION.

statvfs.2

mtk

Small wording clarification.

symlink.2

mtk / Nicolas François

Removed cryptic text under CONFORMING to referring to "open(2) and NFS". There is no relevant text in open.2 as far as I (mtk) can see.

time.2

mtk / Reuben Thomas

Remove sentence "gettimeofday() obsoleting time() on 4.3BSD".

This information is old, and probably no longer relevant.

See

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=403888>

write.2

mtk, after an idea from a downstream Fedora patch.

Clarified discussion of /count == 0/ case.

ptrace.2

Chuck Ebbert

When the parent receives an event with PTRACE_EVENT_* set, the child is not in the normal signal delivery path. This

means the parent cannot do ptrace(PTRACE_CONT) with a signal or ptrace(PTRACE_KILL). kill() with a SIGKILL signal can be used instead to kill the child process after receiving one of these messages.

sched_setaffinity.2

mtk

Fix glibc version number in description of 'cpusetsize' argument.

vfork.2

mtk

Stripped some excess/outdated text from the BUGS section.

basename.3

mtk / Jorge Peixoto de Morais Neto

Add text to clarify that the pointer returned by these functions may be into some part of 'path'.

dlopen.3

Taken from Fedora downstream patches; thanks to Ivana Varekova + Carlo

Marcelo Arenas Belon

Add "#include <stdlib.h>" to example program.

fclose.3

mtk

Complete rewrite. The existing page was hard to read, and the RETURN VALUE description seems to be wrong.

getopt.3

mtk

Added getopt() example program.

mtk

Add a few words to clarify the operation of the GNU-specific double-colon feature, which allows options to have optional arguments.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=352139>

glob.3

Nicolas François

Fix PROTOTYPE.

inet_network.3

mtk, after an idea from a downstream Fedora patch.

Clarified description of inet_network().

log.3

Nicolas François

Fix .TH line.

log10.3

Nicolas François

Fix .TH line.

malloc.3

Nicolas François

Small rewording to mention calloc().

posix_openpt.3

Martín Ferrari

Fix return type in SYNOPSIS; as per

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=400971>

Needs _XOPEN_SOURCE == 600; as per

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=400975>

Julien BLACHE

s/ptsname/posix_openpt/ in RETURN VALUE

re_comp.3

Taken from Fedora downstream patches; thanks to Ivana Varekova

Add "#define _REGEX_RE_COMP" to SYNOPSIS.

regex.3

Nicolas François

Fix .TH line.

termios.3

mtk

Added .SS headers to give some structure to this page; and a small amount of reordering.

mtk

Added a section on canonical and non-canonical mode.

mtk

Enhanced the discussion of "raw" mode for cfmakeraw().

mtk

Document CMSPAR.

mtk

Make description of PARODD a little clearer.

Reuben Thomas

Add SEE ALSO link to tty_ioctl.4

mtk

Add SEE ALSO link to console_ioctl.4

ualarm.3

mtk

Removed BSD prototype from synopsis.

Various rewordings.

usleep.3

mtk

Removed BSD prototype from synopsis.
Various rewordings.

termcap.5

Taken from Fedora downstream patches; thanks to Ivana Varekova
s/curses/ncurses/ under SEE ALSO

bootparam.7

Taken from Fedora downstream patches; thanks to Ivana Varekova
Documented "mem=nopentium".

feature_test_macros.7

mtk

The default treatment of `_POSIX_C_SOURCE` changed in glibc 2.4.

mtk, after a suggestion by Justin Pryzby

Added some text warning that the "`__`" macros that
<features.h> defines internally should never be
directly defined by programs.

mtk, based on notes by Jakub Jelinek

Document `_FORTIFY_SOURCE`

(See <http://gcc.gnu.org/ml/gcc-patches/2004-09/msg02055.html>)

mtk

Document `_REENTRANT` and `_THREAD_SAFE`.

mdoc.7

mtk / Nicolas François

Remove CONFIGURATION section, since this does not seem to be
true for Linux.

svipc.7

Nicolas François

Fix data types in associated data structures;
remove nonexistent `semzcnt` and `semnct`

fields.

time.7

mtk

Since kernel 2.6.20, the software clock can also be 300 HZ.

==== Changes in man-pages-2.45 =====

Released: 2007-04-05

Global changes

This release consists mainly of formatting fixes (to a large number of pages) to achieve greater consistency across pages. With the exception of the few individual changes noted below, no changes were made to content.

Changes to individual pages

io_destroy.2

io_getevents.2

io_setup.2

io_cancel.2

io_submit.2

mtk

Clarified RETURN VALUE text

bindresvport.3

mtk

Rewrote prototype using modern C syntax.

===== Changes in man-pages-2.46 =====

Released: 2007-04-06

Global changes

This release consists mainly of formatting fixes (to a large number of pages) to achieve greater consistency across pages:

- * Most instances of two or more consecutive blank lines in man page output were shrunk to a single line.
- * A number of example programs were reformatted to more closely match K&R style.
- * In various places (mainly code examples), the use of tabs was replaced by spaces

With the exception of the few individual changes noted below, no changes were made to content.

Changes to individual pages

bdflush.2

mtk

Add <sys/kdaemon.h> header file to SYNOPSIS.

sched_rr_get_interval.2

mtk

Moved timespec definition from SYNOPSIS into description.

select_tut.2

mtk

Make SYNOPSIS match select.2.

==== Changes in man-pages-2.47 =====

Released: 2007-05-04

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andi Kleen <andi@firstfloor.org>

John Heffner <jheffner@psc.edu>

Apologies if I missed anyone!

Global changes

This release consists mainly of changes to source file layout

(wrapped long lines; stripped trailing white space; started new sentences on new lines).

There is very little change to output formatting or content (see the notes below).

Changes to individual pages

sched_rr_get_interval.2

mtk

Remove crufty statement that this system call is not implemented.

The nice interval can be used to control the size of

the round-robin quantum.

Corrected .TH line.

ip.7

John Heffner / mtk

Document IP_PMTUDISC_PROBE, which will be in 2.6.22.

===== Changes in man-pages-2.48 =====

Released: 2007-05-04

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Colin Watson <cjwatson@debian.org>

Justin Pryzby <justinprzby@users.sourceforge.net>

Apologies if I missed anyone!

Global changes

This release consists mainly of changes to source file layout (wrapped long lines; stripped trailing white space; started new sentences on new lines).

There is very little change to output formatting or content (see the notes below).

Various pages

mtk

In various places where it occurred,
s/nonnegative/non-negative/

Various pages

mtk

s/wide character/wide-character/ when used attributively.

Changes to individual pages

man.7

Justin Pryzby / Colin Watson / mtk

.SH doesn't require quotes.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=411303>

===== Changes in man-pages-2.49 =====

Released: 2007-05-20

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Akihiro MOTOKI <amotoki@dd.iij4u.or.jp>

Bruno Haible <bruno@clisp.org>

Justin Pryzby <justinpryzby@users.sourceforge.net>

Apologies if I missed anyone!

New pages

bsd_signal.3

mtk

Documentation of bsd_signal().

eidaccess.3

mtk

Manual page for eidaccess() and eaccess().

getsubopt.3

mtk / Justin Pryzby

Documentation of getsubopt().

sysv_signal.3

mtk

Documentation of sysv_signal().

New links

epoll_pwait.2

mtk

New link to `epoll_wait.2`.

`eaccess.3`

mtk

New link to `new_euidaccess.3`,

`sem_timedwait.3`

mtk

New link to `sem_wait.3`.

`sem_trywait.3`

mtk

New link to `sem_wait.3`.

Global changes

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

`access.3`

mtk

Added SEE ALSO ref to `new_euidaccess.3` page.

`epoll_wait.2`

mtk

Added description of `epoll_pwait()`, new in kernel 2.6.19.

`execve.2`

mtk

Add text noting that Linux allows 'argv' and 'envp' to be NULL, but warning that this is non-standard and non-portable, and

should be avoided in portable programs.

Bug filed (http://bugzilla.kernel.org/show_bug.cgi?id=8408) to get this changed, but maybe that won't be done because it is an ABI change.

mtk

Added an example program.

mtk

Expanded the discussion of interpreter scripts and the 'optional-arg' argument of an interpreter script.

For further info, see

<http://homepages.cwi.nl/~aeb/std/hashexclam-1.html>

<http://www.in-ulm.de/~mascheck/various/shebang/>

mtk

Added text noting that `FD_CLOEXEC` causes record locks to be released.

mtk

Mention effect of `MS_NOSUID` mount(2) flag for set-user-ID programs.

mtk

Expanded description of handling of file descriptors during `execve()`, adding text to note that descriptors 0, 1, and 2 may be treated specially.

fcntl.3

mtk

Added SEE ALSO ref to new `euidaccess.3` page.

mmap.2

mtk

Place `MAP_*` flags list in alphabetical order.

readv.2

mtk

A fairly substantial rewrite, which among other things fixes the problem reported by Kyle Sluder in http://bugzilla.kernel.org/show_bug.cgi?id=8399 And added some example code.

sigaction.2

mtk

Added text referring to the discussion of `async-signal-safe` functions in `signal(7)`.
A few other minor formatting and wording changes.

signal.2

mtk

Moved the discussion of `async-signal-safe` functions to `signal(7)`.
Added text referring to the discussion of `async-signal-safe` functions in `signal(7)`.
Added SEE ALSO entries referring to new `bsd_signal.3` and `sysv_signal.3` pages.

copysign.3

Bruno Haible

Clarify discussion of negative zero.

getopt.3

mtk

Add SEE ALSO ref to new getsubopt.3.

iconv_open.3

Bruno Haible

Describe the glibc/libiconv //TRANSLIT and //IGNORE extensions for 'tocode'.

iswblank.3

Bruno

Haible

Update CONFORMING TO; iswblank() is in POSIX.1-2001.

inotify.7

mtk

Definitions for IN_DONT_FOLLOW, IN_MASK_ADD, and IN_ONLYDIR were added to glibc in version 2.5.

signal.7

mtk

Incorporated (and slightly modified) the text on async-signal-safe functions that was formerly in signal(2). Added SEE ALSO entries referring to new bsd_signal.3 and sysv_signal.3 pages.

==== Changes in man-pages-2.50 =====

Released: 2007-05-21

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andreas Halter <halter@google.com>

Laird Shaw <netocrat@dodo.com.au>

Mike Frysinger <vapier@gentoo.org>

Apologies if I missed anyone!

Removed pages (!)

Most Section 1 man pages are removed

mtk (with help from Mike Frysinger, Laird Shaw, Andreas Halter)

Once upon time Andries added a number of Section

1 manual pages

to man-pages. However, since that time, those pages have not seen much maintenance, and are not in fact distributed in most distributions. Instead most distributions supply the coreutils versions of these pages, which are currently maintained. In addition, man-pages provides the 1p pages, which document the portable subset of functionality of these commands. Since the man1 pages are mostly unneeded, and out of date, I'm removing them. The following pages disappear:

- chgrp.1
- chmod.1
- chown.1
- cp.1
- dd.1
- df.1
- diff.1
- dir.1
- dircolors.1
- du.1
- install.1
- ln.1
- ls.1
- mkdir.1
- mkfifo.1
- mknod.1
- mv.1
- rm.1
- rmdir.1
- touch.1
- vdir.1

The following Section 1 pages will
be kept:

- intro.1
- ldd.1
- time.1

==== Changes in man-pages-2.51 =====

Released: 2007-05-28

Global changes

Various pages

mtk

(Hopefully) all cross references outside a page now include a section number. This should permit better resulting output from a man2html-type conversion.

Various pages

mtk

Convert function formatting of the form "\fBname\fp()" to ".BR name ()".

Changes to individual pages

futimesat.2

mtk

s/futimes/futimesat/ in .SH NAME line.

msgop.2

mtk

Put "msgrcv" and "msgsnd" in .SH NAME line.

mount.2

mtk

Add "umount2" to .SH NAME line.

wait.2

mtk

Add "waitid" to .SH NAME line.

getopt.3

mtk

Add "getopt_long" and "getopt_long_only" in .SH NAME line.

sem_wait.3

mtk

Add "sem_timedwait" and "sem_trywait" to .SH NAME line.

stdarg.3

mtk

Add "va_start", "va_arg", "va_end", "va_copy" to .SH NAME line.

==== Changes in man-pages-2.52 =====

Released: 2007-05-29

"A foolish consistency is the hobgoblin of little minds, adored by

little statesmen and philosophers and divines"

Ralph Waldo Emerson (1803-1882)

"But damn it, these man pages are a mess!"

Global changes

Most of the changes below are about bringing greater consistency to manual pages, including reducing the wide range of .SH Section headings.

Typographical or grammatical errors have been corrected in several places.

Various pages

mtk

Make 'manual' component of .TH line into the string "Linux Programmer's Manual".

Reason: consistency.

Various pages

mtk

Changed date in .TH line into form YYYY-DD-MM.

Reason: consistency.

Various pages

mtk

Some .SH header lines were made into .SS lines. (One of the aims here is to reduce the number of non-standard .SH lines.)

Various pages

mtk

Change title .SH sections named "NOTE" to "NOTES", in some cases also changing the location of the section within the page.

Reason: consistency.

Various pages

mtk

Commented out .SH AUTHOR sections; the right place for documentation authorship sections is usually comments at the top of the page source.

Various pages

mtk

Changed .SH HISTORY to .SH VERSIONS.

Reason: in many cases, HISTORY was being used to describe Linux/glibc version information, as was already done for VERSIONS sections in other pages.

Various pages

mtk

Removed HISTORY section, or moved it as a subsection or paragraphs under another section e.g., NOTES.

Reason: there are too many arbitrary section (.SH) names, and a HISTORY section never was consistently used across Linux manual pages.

Various pages

mtk

Moved

SEE ALSO section to be last section on the page

Reason: consistency -- and this is where SEE ALSO should be!

Various pages

mtk

Relocated GLIBC NOTES as subsection under NOTES

Reason: reduce number of arbitrary section (.SH) names.

Various pages

mtk

Relocated LINUX NOTES as subsection under NOTES

Reason: reduce number of arbitrary section (.SH) names.

Various pages

mtk

Renamed some "AVAILABILITY" sections to "VERSIONS".

Reason: consistency.

Various pages

mtk

Renamed some "DIAGNOSTICS" sections to "RETURN VALUE".

Reason: consistency.

getopt.3

tzselect.8

mtk

s\.\SH ENVIRONMENT VARIABLES/.SH ENVIRONMENT/

Reason: consistency.

intro.2

select.2

sysctl.2

bsearch.3
dlopen.3
envz_add.3
fmtmsg.3
getgrent_r.3
getgrouplist.3
getpwent_r.3
gettutent.3
hsearch.3
rttime.3
strptime.3
tsearch.3
vcs.4
wordexp.3
mtk
s/return 0/exit(EXIT_FAILURE)/ in main() of function example

program.
Reason: consistency.

mprotect.2
select_tut.2
dlopen.3
getgrent_r.3
getopt.3
getpwent_r.3
hsearch.3
select_tut.2
tsearch.3
mtk
Use symbolic constants (EXIT_SUCCESS, EXIT_FAILURE) in calls
to exit().
Reason: consistency.

access.2
chown.2
lseek.2
open.2
read.2
utmp.5
mtk
Renamed RESTRICTIONS section to NOTES, or moved text in a
RESTRICTIONS section under existing NOTES section.
Reason: consistency, and reduce number of arbitrary section (.SH)
names.

Changes to individual pages

capget.2

mtk

s\,.SH FURTHER INFORMATION/.SH NOTES/

dup.2

mtk

s\,.SH WARNING/.SH NOTES/

kill.2

mtk

Renamed LINUX HISTORY section to LINUX NOTES, and relocated within page.

select_tut.2

mtk

Relocated example program and made its .SH title "EXAMPLE".

sigaltstack.2

mtk

Move code example into its own EXAMPLE section.

sigreturn.2

mtk

s\,.SH WARNING/.SH NOTES/

setuid.2

mtk

s\,.SH "LINUX-SPECIFIC REMARKS"/.SH LINUX NOTES/

shmget.2

mtk

Remove section about effect of fork()/exec()/exit(); shmop.2 contains the same text, and it only needs to be said once.

shmop.2

mtk

Minor rewording under DESCRIPTION.

daemon.3

mtk

Minor wording and formatting changes.

encrypt.3

mtk

Removed statement that glibc unconditionally exposes declarations

of encrypt() and setkey(), since portable applications must
use <unistd.h> and define _XOPEN_SOURCE to obtain the declarations
of setkey() and encrypt(). Adjusted example program accordingly.

mkstemp.3

mtk

Slight rewording.

LDP.7

mtk

Minor wording and formatting changes.

man.7

mtk

Substantial rewrite, revising and extending the discussion
about desired conventions for writing pages.

There will be further updates to this page in the

next few

man-pages releases.

==== Changes in man-pages-2.53 =====

Released: 2007-05-30

"A foolish consistency is the hobgoblin of little minds, adored by
little statesmen and philosophers and divines"

Ralph Waldo Emerson (1803-1882)

"But damn it, these man pages are a mess!"

Global changes

Many many pages

mtk

Reordered sections to be more consistent, in some cases renaming
sections or shifting paragraphs between sections.

man7/*

mtk

In various pages in this section, .SH headings were
converted to .SS.

==== Changes in man-pages-2.54 =====

Released: 2007-06-07

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Emmanuel Mogenet <emogenet@google.com>

Michael Berg <michaeljberg@gmail.com>

Apologies if I missed anyone!

Global changes

Various

pages

mtk

Where there is an instruction in the SYNOPSIS about linking or compiling with a certain option, the option is now marked up in italics (e.g., "*\fI-lm\fP*").

Various pages

mtk

Added page numbers to page cross references.

A few pages

mtk

s/manpage/man page/, for consistency.

Typographical or grammatical errors have been corrected in several places.

New pages

man-pages.7

mtk

A description of the conventions that should be followed when writing pages for the man-pages package.

Removed pages

man1/README

mtk

Already deleted most of the man1 pages previously, so this doesn't need to stay.

LDP.7

mtk

Removed this page since it is out of date, and the proper place to go for up-to-date information is <http://www.tldp.org/>

ksoftirq.9

mtk

Reason: this was the only Section 9 page, and it is old (Linux 2.4). The

man9 section never took off as an idea, and

I see little point in keeping a Section 9 with just a single old page.

Changes to individual pages

HOWTOHELP

mtk

Moved some material out of here into new man-pages.7.

alloc_hugepages.2

mtk

Minor rewrites, eliminating some duplication, and removing some outdated text.

epoll_pwait.2

Michael Berg

Fix broken link path;

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=425570>

fcntl.2

mtk

Remove misleading text about setting O_ASYNC when calling open(); one must use fcntl() F_SETFL for this task.

fdatasync.2

mtk

Converted outdated BUGS note about fdasync() being equivalent to fsync() on Linux 2.2 into a NOTES note about this historical behavior.

futex.2

mtk

Small rewording to fix "fails with the error EWOULDBLOCK" rather than "returns EWOULDBLOCK".
See Red Hat bug 172828.

mprotect.2

mtk, after an observation by Emmanuel Mogenet
A much improved example program.

mtk

Significant rewrites and additions to description.

mremap.2

mtk

Remove text about the nonexistent BSD mremap() -- too much information, in my opinion.

sched_yield.2

mtk

Added ERRORS section.

set_mempolicy.2

mtk

Moved text for "Versions and Library Support".

set_tid_address.2

mtk

Small rewording in RETURN VALUE section.

sigaction.2

mtk

Add EXAMPLE section with a pointer to example in mprotect.2.

sync_file_range.2

mtk

Fix return type in SYNOPSIS. Add RETURN VALUE section.

atexit.3

mtk

Small rearrangement of text under NOTES.

bindresvport.3

mtk

Rewrite and substantial additional text.

exec.3

mtk

Minor clarifications for text on execlp() and execvp(). Removed FILES section, since it provides no useful additional info.

fenv.3

mtk

Moved link instructions from NOTES to SYNOPSIS.

Added feenableexcept, fedisableexcept, fegetexcept
to .SH NAME list.

fputc.3

mtk

Added 'putc' to .SH NAME list.

gethostbyname.3

mtk

s/int/socklen_t/ for type of gethostbyaddr() 'len' argument,
and add a few more words in NOTES about the type used here.

login.3

mtk

Removed remark from NOTES about linking with -lutil; add
text on that point to SYNOPSIS.

openpty.3

mtk

Removed redundant remark from NOTES about linking with -lutil
since there is text on that point under SYNOPSIS.

sysconf.3

mtk

Added SEE ALSO referring to getconf(1).

unlocked_stdio.3

mtk

Revised .SH NAME section.

ascii.7

mtk

Minor rearrangement of order of text.

capabilities.7

mtk

s/exec()/execve(2)/ in various places.

complex.7

mtk

Changed "atan(1)" to "atan(1.0)" to prevent some versions of
man2html(1) from

mistaking that string as a page cross reference.

rtnetlink.7

mtk

Small restructuring to avoid 'cannot adjust line' from man(1).

ldconfig.8

mtk

Removed now very out-of-date sentence about need to link shared libraries with -lc.

man.7

mtk

Various text was moved out of this page into the new man-pages.7.

mdoc.7

mtk

Added SEE ALSO referring to new man-pages.7.

mdoc.samples.7

mtk

A few changes, hopefully done right, to eliminate some errors to stderr when rendering with man(1).

rtnetlink.7

mtk

Shorten a line in table so it fits in 80 columns.
Minor rewording under BUGS.

tzselect.8

mtk

Moved EXIT STATUS section.

==== Changes in man-pages-2.55 =====

Released: 2007-06-10

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alexander Taboriskiy <alextab@math-solution.com>

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Julien Cristau <jcristau@debian.org>
Justin Pryzby <justinpryzby@users.sourceforge.net>
Martin (Joey) Schulze <joe@infodrom.org>
Mike Frysinger <vapier@gentoo.org>
Serge van den Boom <svdb@stack.nl>
Ulrich Drepper <drepper@redhat.com>
Xose Vazquez Perez <xose.vazquez@gmail.com>

Apologies if I missed anyone!

Global changes

clone.2
getdents.2
gettid.2
ioprio_set.2
llseek.2
mmap2.2
modify_ldt.2
mq_getsetattr.2
pivot_root.2
quotactl.2
readdir.2
sysctl.2
syslog.2
tkill.2

mtk, after a note by Mike Frysinger
Updated to reflect the fact that the _syscallN() macros
have gone away,

Several pages

mtk
Change reference to path_resolution.2 to path_resolution.7.

Typographical or grammatical errors have been corrected in several
places.

Moved pages

path_resolution.2 has been moved to section 7, thus path_resolution.7

mtk
Reason: this is an overview
page, not one describing as
a specific system call.

Changes to individual pages

MAINTAINING

mtk, after a note from Xose Vazquez Perez

Added pointer to Red Hat man-pages bugzilla.

mtk

Added a release philosophy note on separating out big formatting changes into their own release that contains minimal content changes.

accept.2

mtk

Add new EXAMPLE section with pointer to example in bind.2.

arch_prctl.2

mtk

Added RETURN VALUE section.

bind.2

mtk

Expand example program, and move it to new EXAMPLE section.
Added text pointing to example in getaddrinfo.3.

cacheflush.2

mtk

Convert NOTES section to CONFORMING TO and note that this call is Linux-specific.
Other minor rewordings.

connect.2

mtk

Added new EXAMPLE section pointing to example in getaddrinfo.3.

create_module.2

mtk

Add ENOSYS error.

fcntl.2

flock.2

mtk

Small rewrite of SEE ALSO text pointing to Documentation/* in kernel source.

get_kernel_syms.2

mtk

Added ERRORS heading

Add ENOSYS error.

getdtablesize.2

mtk

Added an ERRORS section.

getsid.2

mtk

Added a RETURN VALUE section.

getpid.2

mtk

Added an ERRORS section (stating that the calls are always successful).

ioctl_list.2

mtk

Add SEE ALSO reference to ioctl.2.

listen.2

mtk

Add new EXAMPLE section with pointer to example in bind.2.

query_module.2

Martin (Joey) Schulze

Add ENOSYS error.

recv.2

mtk

Added new EXAMPLE section pointing to example in getaddrinfo.3.

sched_get_priority_max.2

sched_rr_get_interval.2

sched_setscheduler.2

sched_yield.2

mtk

Modified .TH line

send.2

mtk

Added new EXAMPLE section pointing to example in getaddrinfo.3.

set_tid_address.2

mtk

Added an ERRORS section (stating that the call is

always successful).

signal.2

mtk, after a note from Alexander Taboriskiy

Strengthen warning against the use of signal().

Added siginterrupt(3) to SEE ALSO list.

mtk

Rewrote various parts; added an ERRORS section.

socket.2

mtk

Added new EXAMPLE section pointing to example in getaddrinfo.3.

stat.2

mtk

Added EXAMPLE program.

syscall.2

mtk

Converted to -man format; some rewrites; added an EXAMPLE.

sysctl.2

mtk

Improved the example program.

getnameinfo.3

mtk

Add text pointing to example in getaddrinfo.3.

getaddrinfo.3

mtk

Add example programs.

Add getnameinfo() to SEE ALSO list.

memmove.3

mtk / Serge van den Boom

Clarify discussion of what happens if 'src' and 'dest' overlap.

regex.3

Justin Pryzby

Add grep(1) to SEE ALSO list.

sigpause.3

mtk after a note from Ulrich Drepper

Clarify discussion of feature test macros that are needed

to

expose System V and BSD versions of this function in glibc.

undocumented.3

mtk

Removed some functions that have been documented.

wprintf.2

Martin (Joey) Schulze

Remove wscanf.3 from SEE ALSO list, since that page does not exist.

utmp.5

Joey Hess

Removed outdated note on xdm.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=418009>

Martin (Joey) Schulze

Removed outdated note about Debian and libc5.

bootparam.7

Martin (Joey) Schulze

Fix order of commands listed under 'init='.

hier.7

Joey Hess

Add /media, remove /dos.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=418234>

inotify.7

mtk

Added text describing what happens when the buffer given to read(2) is too small to return information about the next event, and noting the behavior change in 2.6.21.

man-pages.7

mtk

Added text to note that ERRORS list should be in alphabetical order.

mdoc.7

mdoc.samples.7

mtk

Added SEE ALSO reference to groff_mdoc(7).

unix.7

mtk

Added EXAMPLE section with pointer to bind.2 EXAMPLE.

ld.so.8

mtk

Simplify text describing --inhibit-rpath.

mtk, after a note by John Reiser

Describe use of \$ORIGIN in rpath.

===== Changes in man-pages-2.56 =====

Released: 2007-06-11

Global changes

Many pages

mtk

Removed version numbers in .TH lines.

Reason: these were only arbitrarily updated, and so impart no useful information. Version information goes into a VERSIONS section nowadays, and the date in the .TH line should be updated to reflect the date of the last (significant) change to the page.

Typographical or grammatical errors have been corrected in several places.

===== Changes in man-pages-2.57 =====

Released: 2007-06-17

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Samuel Thibault <samuel.thibault@ens-lyon.org>

Apologies if I missed anyone!

Global changes

Many pages

mtk

Fix section numbers in page cross references.

Changes to individual pages

access.2

mtk

Minor wording fixes.
Small clarification of description of 'mode'.

bind.2

mtk

Small reworking of EXAMPLE program.

exit_group.2

mtk

Minor wording fixes.

exit.3

mtk

Added more detail on exit handlers.
Minor wording fixes.

ioctl.2

mtk

Remove SEE ALSO reference to nonexistent mt.4.

modify_ldt.2

Samuel Thibault / mtk

In Linux 2.6, the 'modify_ldt_ldt_s' structure was renamed
'user_desc'.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=378668>

mtk

Include definition of 'user_desc' structure.
Minor rewordings.

mprotect.2

mtk

Small reworking of EXAMPLE program.

sigaction.2

mtk

Removed reference to nonexistent sigsend(2).

a64l.3

mtk

Remove SEE ALSO reference to nonexistent itoa.3.

dysize.3

mtk

Removed SEE ALSO reference to nonexistent time.3.

encrypt.3

mtk

Removed SEE ALSO reference to nonexistent fcrypt.3.

fmemopen.3

mtk

Small reworking of EXAMPLE program.

fpurge.3

mtk

Remove SEE ALSO reference to nonexistent fclean.3.

getutent.3

mtk

s/ttyname(0)/ttyname(STDIN_FILENO)/ in program example.

vcs.4

mtk

s/exit(1)/exit(EXIT_FAILURE)/

environ.7

mtk

Correct some section numbers in page cross references.

man-pages.7

mtk

Modify requirements for example programs a little.

uri.7

mtk

Wrapped long source lines.

==== Changes in man-pages-2.58 =====

Released: 2007-06-24

Contributors

The following people contributed
notes, ideas, or patches that have
been incorporated in changes in this release:

Marc Boyer <marc.boyer@enseiht.fr>

Mike Frysinger <vapier@gentoo.org>

Apologies if I missed anyone!

Global changes

Various pages, as detailed below

mtk

Added or updated VERSIONS sections.

killpg.2

setuid.2

faccessat.2

fork.2

setfsuid.2

kill.2

getsid.2

wait.2

execve.2

getpid.2

setgid.2

seteuid.2

setresuid.2

setfsgid.2

access.2

initgroups.3

euidaccess.3

tcgetpgrp.3

path_resolution.7

capabilities.7

unix.7

mtk

Add SEE ALSO link to new credentials.7.

New pages

credentials.7

mtk

An overview of Linux process identifiers (PIDs, PPIDs, PGIDS, SIDs, UIDs, GIDs).

Changes to individual pages

bind.2

mtk

Added some comments to example program.

getxattr.2

mtk

VERSIONS: In kernel since 2.4; glibc support since 2.3.

listen.2

mtk

Updated discussion of somaxconn limit.

listxattr.2

mtk

VERSIONS: In kernel since 2.4; glibc support since 2.3.

posix_fadvise.2

mtk

VERSIONS: Glibc support has been provided since version 2.2.

readahead.2

mtk

Added VERSIONS section.

remap_file_pages.2

mtk

Updated VERSIONS section with text on glibc support.

removexattr.2

mtk

VERSIONS: In kernel since 2.4; glibc support since 2.3.

semop.2

mtk

Added VERSIONS section with info on semtimedop().

setxattr.2

mtk

VERSIONS: In kernel since 2.4; glibc support since 2.3.

dl_iterate_phdr.3

mtk

VERSIONS: Supported since glibc 2.2.4.

getloadavg.3

mtk

Added VERSIONS section.

posix_openpt.3

mtk

VERSIONS: Supported since glibc 2.2.1.

printf.3

mtk after a suggestion by Mike Frysinger

Add text to the introductory part of DESCRIPTION, about the 'size' argument of snprintf() and vsnprintf().

shm_open.3

mtk

Added VERSIONS section; rewrote info about linking with -lrt.

strcat.3

Marc Boyer

Improve the discussion of strcat().

strcpy.3

Marc Boyer

Improve the discussion of strcpy().

proc.5

mtk

Added discussion of /proc/sys/net/core/somaxconn.

==== Changes in man-pages-2.59 =====

Released: 2007-06-25

Global changes

Manual pages are now standardized on American spelling. See http://en.wikipedia.org/wiki/American_and_British_English_spelling_differences for more information on the differences. Formerly, different pages (and sometimes even a single page!) employed American and British spelling conventions; best to standardize on one spelling, and American English is the standard in Computer Science.

Changes to individual pages

man-pages.7

mtk

Note that man-pages has now standardized on American spelling conventions.

execve.2

getxattr.2
listxattr.2
removexattr.2
setxattr.2
signal.2
syscall.2
aio_cancel.3
bindresvport.3
stdarg.3
charmap.5
bootparam.7
ipv6.7
man.7
path_resolution.7
uri.7

nscd.8

mtk

Corrected minor spelling/wording mistakes (i.e., changes independent of fixes for American spelling).

===== Changes in man-pages-2.60 =====

Released: 2007-06-25

Global changes

Various pages

mtk

Wrapped lines in some files.

Various pages

mtk

Change "e.g. " to "e.g., ", or in some cases, "for example, ".

Various pages

mtk

Change "i.e. " to i.e., ", or in some cases, "that is, ".

Various pages

mtk

Removed AUTHORS section.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

vfork.2

mtk

s/w.r.t./with respect to/

man-pages.7

mtk

Strengthened warning against use of AUTHORS section.

===== Changes in man-pages-2.61 =====

Released:

2007-07-01

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>

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Jeff Schroeder <jeffschroeder@computer.org>

Joey (Martin) Schulze <joe@infodrom.org>

Justin Pryzby <justinpryzby@users.sourceforge.net>

Loïc Minier <lolo@dooz.org>

Michael Gehring <mg@ebfe.org>

Serge van den Boom <svdb@stack.nl>

Stefan Puiu <stefanpuiu@yahoo.com>

Stepan Kasal <kasal@ucw.cz>

Apologies if I missed anyone!

Global changes

Various pages

mtk

substitute `\\0' by '\\0'.

Various pages

mtk

s^// when the thing being quoted is a character.

accept.2

bind.2

connect.2

getsockopt.2

listen.2

socket.2

socketpair.2

mtk after a note by Martin (Joey) Schulze

Add NOTES paragraph noting that <sys/types.h> isn't required

by

POSIX.1-2001 or Linux, but was required on some implementations.

accept.2

getsockname.2

recv.2

vm86.2

send.2

getgrouplist.3

memmem.3

nsswitch.conf.5

putenv.3

wprintf.3

mtk

Replace form `...' with \fI...\fP where the enclosed string
is a pathname, type name, or argument name.

A few files

mtk

s/process' /process's/

gets.3

qsort.3

getaddrinfo.3

rpc.3

ungetwc.3

wcsnrtombs.3

capabilities.7

mtk

Add section number to page cross references.

time.1

bind.2

pivot_root.2

sysctl.2

mtk

Reordered .SH sections.

full.4

mouse.4

random.4

sd.4

mtk

Made CONFIG/CONFIGURING heading ==> CONFIGURATION

time.1

console_codes.4

random.4

sk98lin.4

charmap.5

ftpusers.5

bootparam.7

charsets.7

glob.7

mq_overview.7

unicode.7

uri.7

utf-8.7

mtk

Reformatted headings

New pages

backtrace.3

mtk, with input from Justin Pryzby and Stefan Puiu

Documents backtrace(), backtrace_symbols(), and
backtrace_symbols_fd().

New

links

backtrace_symbols.3

backtrace_symbols_fd.3

mtk

Links to backtrace.3.

__clone.2

Stepan Kasal

Link to clone.2.

Changes to individual pages

Makefile

Serge van den Boom

Fix setting of 'prefix' macro.

eval.1p

Benno Schulenberg

Fix bad text (concatenated line).

chdir.2

mtk

Fixed description of EACCES error.

Added sentence defining "current working directory".

Other minor wording changes.

cfree.3

mtk

Added SEE ALSO section.

clone.2

mtk

s/clone2/ __clone2/.

fdatasync.2

mtk

Minor wording changes.

fork.2

Alain Portal

Fix small wording error.

gethostid.2

Stefan Puiu / mtk

Add NOTES on what happens if gethostid() can't open /etc/hostid.

idle.2

mtk

Made NOTES text into a VERSIONS section, since that's what it really describes.

ioperm.2

mtk

Minor wording changes.

intro.2

mtk

Rewrite to reflect the fact that the `_syscallN` macros are no longer available.

io_cancel.2

mtk

Add "Link with `-laio`" to SYNOPSIS.

io_destroy.2

mtk

Add "Link with `-laio`" to SYNOPSIS.

io_getevents.2

mtk

Add "Link with `-laio`" to SYNOPSIS.

io_setup.2

mtk

Add "Link with `-laio`" to SYNOPSIS.

io_submit.2

Ivana Varekova

Fix include in SYNOPSIS.

mtk

Add "Link with `-laio`" to SYNOPSIS.

ipc.2

mtk

Add `semtimedop()` to SEE ALSO.

Note that some architectures don't have `ipc(2)`; instead real system calls are provided for `shmctl()`, `semctl()`, etc.

killpg.2

mtk

Minor wording changes.

listen.2

mtk

Added `<sys/types.h>` to SYNOPSIS.

sched_setscheduler.2

mtk

Add NOTES para about permissions required to call `sched_setscheduler()` on other systems.

select.2

mtk

Noted that 'timeout' can also be changed if select()
is
interrupted by a signal.

setup.2

mtk

Remove reference to _syscall0() macro.

shmop.2

mtk

Changed text for EINVAL error.

socketcall.2

mtk

Add recvmsg() and sendmsg() to SEE ALSO.

Note that some architectures don't have socketcall(2); instead
real system calls are provided for socket(), bind(), etc.

swapon.2

Ivana Varekova / mtk

Update text for EPERM error describing the maximum number of
swap files. (From downstream Fedora patch.)

write.2

mtk

Added details about seekable files and file offset.

Noted that write() may write less than 'count' bytes, and
gave some examples of why this might occur.

Noted what happens if write() is interrupted by a signal.

Minor wording changes.

__setfpucw.3

mtk

Added a CONFORMING TO section; other minor edits.

confstr.3

mtk

Minor rewrites in code example.

ctime.3

Justin Pryzby

Make SEE ALSO

refer to timegm.3

daemon.3

mtk

Small wording change.

dl_iterate_phdr.3

Michael Gehring

Comment was missing closing "*/".

dlopen.3

mtk

Formatting changes, and minor rewordings.

mtk, after a note by Serge van den Boom

Add a comment explaining the need for the rather strange cast of the return value of dlsym().

fpclassify.3

mtk

Add "isinf" to NAME section.

getgrouplist.3

mtk

Minor rewording.

getline.3

mtk

Minor rewording, and note that '*n*' is ignored if '*lineptr' is NULL.

malloc.3

Ivana Varekova / mtk

Update description of MALLOC_CHECK_ to include description for value 3. (From downstream Fedora patch.)

netlink.3

mtk

Added a CONFORMING TO section; other minor edits.

openpty.3

mtk

Minor changes to SYNOPSIS.

program_invocation_name.3

mtk

Shortened page title to INVOCATION_NAME.

rtnetlink.3

mtk

Added a CONFORMING TO section; other minor edits.

scanf.3

Florian Ernst

Fix duplicated word "the".

(Really fix <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=412467> !)

select_tut.3

mtk

Small wording change.

setnetgrent.3

mtk

Added a CONFORMING TO section.

sigpause.3

mtk

Added a CONFORMING TO section.

strftime.3

Just Pryzby

Small wording fix.

mtk

Note use of "gcc -Wno-format-y2k" to avoid the "%c yields only last 2 digits of year in some locales" warning.

strstr.3

mtk

Add "strcasestr" to NAME section.

syslog.3

mtk

Small wording change.

termios.3

mtk

Reformat SYNOPSIS.

Added a CONFORMING TO section.

timegm.3

mtk

Small wording changes.

ulimit.3

mtk

Remove erroneous text saying that glibc does not provide <ulimit.h>; it does.

initrd.4

mtk

Various reformattings.

core.5

mtk

Added a sentence noting why core dumps named "core.PID" were useful with LinuxThreads.

bootparam.7

mtk

Fix capitalization in .SS headings.

epoll.7

mtk

Language clean ups.

feature_test_macros.7

mtk

Added SEE ALSO section.

mq_overview.7

mtk

Reformatted headings; minor rewrites.

sem_overview.7

mtk

Reformatted headings; minor rewrites.

socket.7

Loïc Minier <lool@dooz.org>

Document argument type for SO_REUSEADDR.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=255881>

uri.7

mtk

Wrap long line in SYNOPSIS.

ldconfig.8

mtk

Added SEE ALSO section.

==== Changes in man-pages-2.62 =====

Released: 2007-07-09

This release consists solely of formatting fixes. There are no changes to content.

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Stepan Kasal <kasal@ucw.cz>

Apologies if
I missed anyone!

Global changes

Many many pages

mtk

Many many formatting fixes.

man[013]p/*

Stepan Kasal

Add section number to .TH line for POSIX pages in man[013]p.

===== Changes in man-pages-2.63 =====

Released: 2007-07-16

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Justin Pryzby <justinpryzby@users.sourceforge.net>

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Patrick Mansfield <patmans@us.ibm.com>

Pierre Habouzit <madcoder@debian.org>

Stepan Kasal <kasal@ucw.cz>

Apologies if I missed anyone!

Global changes

gettimeofday.2

madvise.2

msgctl.2

select.2

semctl.2

shmctl.2

syslog.2

stat.2

a64l.3

printf.3

termios.3

xdr.3

sd.4

mtk

Minor wording changes.

obsolete.2

syscall.2

unimplemented.2

mtk

Added SEE ALSO reference to syscalls.2.

New pages

sgetmask.2

mtk

A real man page for sgetmask(2) and ssetmask(2).

(This page replaces a previous link of the same name, which linked to signal.2.)

spu_create.2

Arnd Bergmann with additional work by Eduardo M. Fleury and mtk

Document the PowerPC SPU spu_create() system call.

(Originally taken from the kernel source file

Documentation/filesystems/spufs.txt.)

spu_run.2

Arnd Bergmann with additional work by Eduardo M. Fleury and mtk

Document the PowerPC SPU spu_run() system call.

(Originally taken from the kernel source file

Documentation/filesystems/spufs.txt.)

spufs.7

Arnd Bergmann with additional work by Eduardo M. Fleury and mtk

Document the PowerPC SPU file system.

(Originally taken from the kernel source file

Documentation/filesystems/spufs.txt.)

Removed

Pages

__clone.2

mtk

This file was created by accident in 2.61, as a copy of clone.2.

(it should have been a link to clone.2.)

obsolete.2

mtk

Details on this page are covered in syscalls.2 and in

respective syscall man pages (stat.2, uname.2).

undocumented.2

mtk

This page is very out of date, and in any case difficult to maintain. Information about undocumented system calls is maintained in the HOWTOHELP file, and probably in other places soon.

killpg.3

mtk

This rather incomplete page seems unnecessary since there is a killpg.2.

New links

chown32.2

fchown32.2

getegid32.2

geteuid32.2

getgid32.2

getgroups32.2

getresgid32.2

getresuid32.2

getuid32.2

lchown32.2

setfsuid32.2

setfsuid32.2
setgid32.2
setgroups32.2
setregid32.2
setresgid32.2
setresuid32.2
setreuid32.2
setuid32.2

mtk

Added as link to corresponding page
without "32".

fcntl64.2
fstat64.2
fstatat64.2
fstatfs64.2
ftruncate64.2
getdents64.2
lstat64.2
pread64.2
pwrite64.2
sendfile64.2
stat64.2
statfs64.2
truncate64.2

mtk

Added as link to corresponding page without "64".

__clone2.2
clone2.2

mtk

Links to clone.2.

ugetrlimit.2

mtk

Link to getrlimit.2.

mq_notify.2
mq_open.2
mq_timedreceive.2
mq_timedsend.2
mq_unlink.2

mtk

Added as links to corresponding section 3 pages.

fdadvise64.2
fdadvise64_64.2

mtk

Links to posix_fadvise.2.

rt_sigaction.2

rt_sigpending.2

rt_sigprocmask.2

rt_sigtimedwait.2

mtk

Added as link to corresponding page without "rt_" prefix.

rt_sigqueueinfo.2

mtk

Link to sigqueue.2.

madvise1.2

tuxcall.2

vserver.2

mtk / Ivana Varekova

Link to unimplemented.2.

Changes to individual pages

access.2

mtk

Fairly substantial rewrites of various parts,
and a few additions.

chmod.2

mtk

Update SYNOPSIS to reflect the fact that fchmod(2) needs
either "#define _XOPEN_SOURCE 500" or "#define _BSD_SOURCE".

chown.2

mtk

Update SYNOPSIS to reflect the fact that fchmod(2) and lchown(2)
need either "#define _XOPEN_SOURCE 500" or "#define _BSD_SOURCE".
Added an example program.

killpg.2

mtk

Note that killpg() is actually a library function on Linux.

mmap.2

mtk

Added note that glibc mmap() wrapper nowadays invokes mmap2().

mmap2.2

Ivana Varekova / mtk

On most platforms the unit for 'offset' is 4096 bytes, not the system page size.

mtk

Rewrote NOTES to note that glibc mmap() wrapper nowadays invokes this system call.

mtk

Added an EXAMPLE program.

oldfst.2

oldlstat.2

oldstat.2

mtk

Changed link to point to stat.2 (instead of obsolete.2).

olduname.2

oldolduname.2

mtk

Changed link to point to uname.2 (instead of obsolete.2).

sched_setaffinity.2

Martin Röhricht

Added `_GNU_SOURCE` to SYNOPSIS.

semctl.2

mtk

Remove reference discussion of ipc(2), since none of the other System V IPC pages mention ipc(2).

semop.2

mtk

Add an example code segment.

shmctl.2

mtk

Add svipc(7) to SEE ALSO list.

sigaction.2

mtk

Reformatted tables as lists; other minor reformatting and wording changes.

sigqueue.2

mtk

Added info on `rt_sigqueueinfo(2)`.

sigwaitinfo.2

mtk

Noted that sigwaitinfo() is a library function implemented on top of sigtimedwait().

ssetmask.2

mtk

Make this link point to new sgetmask.2 instead of signal.2.

stat.2

mtk

Add notes on the different system call interfaces that have appeared over time.

syscalls.2

mtk

A fairly substantial rewrite of this page, bringing it up to date with the current kernel version, and listing all system calls in tabular form.

uname.2

mtk

Add notes on the different system call interfaces that have appeared over time.

unimplemented.2

mtk

Add vserver, madvise1 to NAME line.
Removed SEE ALSO reference to obsolete.2.

Ivana Varekova

Add tuxcall to NAME line.

mktemp.3

Patrick Mansfield

Fix description of return value.

streat.3

Marc Boyer

Minor fix to example program.

undocumented.3

mtk

Add section numbers to function names; remove some functions since they are documented.

proc.5

mtk

Update/correct text on /proc/malloc.

mtk, after a note by Pierre Habouzit, and a few comments by Justin Pryzby

Update description of /proc/PID/stat to match 2.6.21.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=417933>

inotify.7

mtk

IN_DONT_FOLLOW and IN_ONLYDIR are only available from 2.6.15.

signal.7

Stepan Kasal / mtk

Note SIGRTMIN value depends on glibc.

mtk

Various rewrites and additions to the text in real-time signals.

Add SEE ALSO reference to sgetmask.2.

svipc.7

mtk

Add ipc(2) to SEE ALSO.

==== Changes in man-pages-2.64 =====

Released: 2007-07-27

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Aleksandr Koltsoff <cZR@iki.fi>

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Justin Pryzby <justinpryzby@users.sourceforge.net>

Apologies if I missed anyone!

Global changes

INFINITY.3

_exit.2

a64l.3

abs.3

acct.2

acosh.3

addseverity.3
adjtime.3
asinh.3
atanh.3
atoi.3
brk.2
cbrt.3
cfree.3
chdir.2
chmod.2
chown.2
clearenv.3
clock_getres.3
clone.2
confstr.3
copysign.3
ctermid.3
ctime.3
daemon.3
dirfd.3
div.3
drand48.3
drand48_r.3
dysize.3
ecvt.3
ecvt_r.3
erf.3
euidaccess.3
exp2.3
expm1.3
fdatasync.2
ferror.3
fexecve.3
fgetgrent.3
fgetpwent.3
finite.3
flockfile.3
fopen.3
fpclassify.3
fsync.2
futimes.3
fwide.3
gamma.3
gcvt.3
getcwd.3
getdate.3
getdirentries.3
getdomainname.2

getdtablesize.2
getgrent.3
getgrent_r.3
getgrouplist.3
getgroups.2
gethostbyname.3
gethostid.2
gethostname.2
getlogin.3
getmntent.3
getpagesize.2
getpw.3
getpwent.3
getpwent_r.3
getpwnam.3
getsid.2
getspnam.3
gettimeofday.2
getumask.3
getusershell.3
gsignal.3
hypot.3
inet.3
initgroups.3
insque.3
isalpha.3
iswblank.3
j0.3
kill.2
killpg.2
lgamma.3
lockf.3
log1p.3
log2.3
logb.3
longjmp.3
lrint.3
lround.3
madvise.2
mbsnrtowcs.3
memfrob.3
mincore.2
mkdtemp.3
mknod.2
mkstemp.3
mktemp.3
nan.3
nanosleep.2

nextafter.3
nice.2
on_exit.3
perror.3
posix_memalign.3
posix_openpt.3
printf.3
profil.3
psignal.3
putenv.3
putpwent.3
qecvt.3
rand.3
random.3
rcmd.3
readahead.2
readlink.2
realpath.3
remainder.3
remquo.3
rexec.3
rint.3
round.3
rpmatch.3
scalb.3
scandir.3
scanf.3
seekdir.3
select.2
sem_wait.3
semop.2
setbuf.3
setenv.3
seteuid.2
setjmp.3
setnetgrent.3
setpgid.2
setresuid.2
setreuid.2
sigaltstack.2
siginterrupt.3
significant.3
sigqueue.2
sigvec.3
sigwaitinfo.2
socketmark.3
stat.2
stime.2

strdup.3
strerror.3
strsep.3
strtod.3
strtok.3
strtol.3
strtoul.3
symlink.2
sync.2
syscall.2
syslog.3
tcgetsid.3
telldir.3
tempnam.3
termios.3
tgamma.3
timegm.3
toascii.3
trunc.3
truncate.2
ttyslot.3
tzset.3
ualarm.3
unlocked_stdio.3
unshare.2
usleep.3
vfork.2
vhangup.2
wait.2
wait4.2
wcscasecmp.3
wcsncasecmp.3
wcsnlen.3
wcsnrtombs.3
wcswidth.3
wordexp.3
wprintf.3
mtk
 Added/updated feature test macro requirements for
 glibc; see feature_test_macros.7 for details.

Changes to individual pages

mq_notify.2
mq_open.2
mq_timedreceive.2
mq_timedsend.2

mq_unlink.2

mtk

Fix broken link

setpgid.2

mtk

Fairly substantial changes and corrections, including adding coverage of all of the interfaces that get/set PGIDs.

syscalls.2

mtk / aeb

Various rewordings; clear up some imprecisions.

lgamma.3

mtk

Added 'signgam' to SYNOPSIS and NAME line.

strerror.3

mtk

Note that the XPG version is provided since glibc 2.3.4. The page formerly said that the GNU-specific version is provided by default. That certainly isn't true nowadays, since `_POSIX_C_SOURCE` is set to 200112L by default, so that the XSI-compliant version is supplied by default.

man-pages.7

mtk

Added note pointing to `feature_test_macros.7` for a description of how feature test macro requirements should be specified in manual pages. Various other minor fixes and changes.

feature_test_macros.7

mtk

Added note about how feature test macros are specified in manual pages.

Many other corrections, improvements, additions, and details about differences across glibc versions.

==== Changes in man-pages-2.65 =====

Released: 2007-09-17

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Ulrich Drepper <drepper@redhat.com>
Vincent Lefevre
<vincent@vinc17.org>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

Various pages

mtk

Use 'glibc' consistently to refer to GNU C library.

Various pages

mtk

Order errors under ERRORS alphabetically.

Various pages

Nicolas François

Spelling and formatting fixes, as per

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=439560>

intro.2

select.2

fmtmsg.3

getgrent_r.3

envz_add.3

rtime.3

strptime.3

wordexp.3

Maxime Vaudequin

Add "#include <stdlib.h>" (to declare exit(3)) to example program.

New pages

timeradd.3

mtk

Description of timeradd(), timersub(), timerclear(), timerisset(), timercmp() macros for operating on struct timeval.

Removed pages

fdatasync.2

mtk

Somehow, over time, material on fdatsync(2) crept into fsync.2, and fdatsync also got added to the NAME section of fsync.2. All of the material in fdatsync.2 that was not already in fsync.2 has now been moved there, and the former page has been removed.

In place of the content there, is now a link to fsync.2.

New links

clock_getres.2

clock_gettime.2

clock_settime.2

mtk

Link to [man3/clock_getres.3](#).

[fdatasync.2](#)

mtk

Link to [fsync.2](#).

[fdopendir.3](#)

mtk

Link to [opendir.3](#).

[gethostbyaddr_r.3](#)

Mats Wichmann

Link to [gethostbyaddr.3](#).

[timerclear.3](#)

[timercmp.3](#)

[timerisset.3](#)

[timersub.3](#)

mtk

Links to new [timeradd.3](#).

Changes to individual pages

Makefile

Mike Frysinger

Make the install target of man-pages respect the standard "DESTDIR" variable as well as check the exit status of the install command so errors aren't ignored.

[get_mempolicy.2](#)

Lee Schermerhorn

changed the "policy" parameter to "mode" through out the descriptions

in an attempt to promote the concept that the memory policy is a tuple consisting of a mode and optional set of nodes.

added requirement to link '-lnuma' to synopsis

rewrite portions of description for clarification.

added all errors currently returned by sys call.

removed cautionary note that use of MPOL_F_NODE|MPOL_F_ADDR is not supported. This is no longer true.

added [mmap\(2\)](#) to SEE ALSO list.

getitimer.2

mtk

Since kernel 2.6.22, Linux setitimer() now conforms to POSIX.1, giving an EINVAL error for a non-canonical tv_usec value.

gettimeofday.2

mtk

Replace discussion of timer* macros with a pointer to new page timeradd.3.

ioctl_list.2

Nicolas George

Fixed argument type for BLKGETSIZE.

mbind.2

Lee Schermerhorn

changed the "policy" parameter to "mode" throughout the descriptions in an attempt to promote the concept that the memory policy is a tuple consisting of a mode and optional set of nodes.

rewrite portions of description for clarification.

clarify interaction of policy with mmap()'d files and shared memory regions, including SHM_HUGE regions.

defined how "empty set of nodes" specified and what this means for MPOL_PREFERRED.

mention what happens if local/target node contains no free memory.

clarify semantics of multiple nodes to BIND policy.

Note: subject to change. We'll fix the man pages when/if this happens.

added all errors currently returned by sys call.

added mmap(2), shmget(2), shmat(2) to SEE ALSO list.

mmap.2

mprotect.2

François Diakhate

Add text noting that PROT_WRITE may (and on x86 does) imply PROT_READ.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=441387>

nfsservctl.2

Aleksandr Koltsoff

Fix prototype.

oldfst.2

oldlstat.2

oldstat.2

mtk

Fix broken link

prctl.2

mtk

Update arches/kernel versions for PR_SET_UNALIGNED / PR_GET_UNALIGNED.

readahead.2

mtk

Removed SEE ALSO reference to nonexistent fadvise.2.

reboot.2

mtk

Place SYNOPSIS comments inside C comments (`/* ... */`).

sched_setaffinity.2

Samuel Thibault

Note what thread is affected if 'pid' is specified as 0, or as the value returned by getpid().

sched_setscheduler.2

Carsten Emde

Add text on real-time features of mainline Linux kernel.

select_tut.2

mtk

sync SYNOPSIS with select.2

set_mempolicy.2

Lee Schermerhorn

changed the "policy" parameter to "mode" throughout the descriptions in an attempt to promote the concept that the memory policy is a tuple consisting of a mode and optional set of nodes.

added requirement to link '-Inuma' to synopsis

rewrite portions of description for clarification.

clarify interaction of policy with mmap()'d files.

defined how "empty set of nodes" specified and what this means for MPOL_PREFERRED.

mention what happens if local/target node contains no free memory.

clarify semantics of multiple nodes to BIND policy.

Note: subject to change. We'll fix the man pages when/if this happens.

added all errors currently returned by sys call.

added mmap(2) to SEE ALSO list.

sigaction.2

mtk

s/si_sign/si_errno/ in statement about which field is unused.

Ari Entlich

s/SIGILL/SIGCHLD/ for paragraph describing SIGCHLD.

stat.2

mtk

Improve text describing underlying system calls.

swapon.2

Michael Prokop

EINVAL also occurs if target path is on tmpfs or similar.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=435885>

sync.2

mtk

Incorporated material from now deleted fdatsync.2.

syscall.2

mtk

Small fix in example program.

uname.2

mtk

Improve text describing underlying system calls.

utime.2

Vincent Lefevre / mtk

Clarify utimes() behaviour when 'times' is NULL.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=431480>

mtk

Other minor clarifications of description of utimes().

copysign.3

Vincent Lefevre

s/sign/sign bit/ to remove ambiguity in description.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=435415>

euidaccess.3

mtk

Changed NOTES to VERSIONS.

ffsl.3

mtk

Add ffsl and ffsll to NAME line.

fts.3

mtk

Removed statement that fts functions are expected to appear soon in POSIX; it's years old and has not yet come to pass.

ftw.3

mtk / Geoff Clare

Fixes/improvements for example program.

getdate.3

mtk

Add getdate_r to NAME section.

getaddrinfo.3

mtk / Geoff Clare

Fixes/improvements for example program.

gethostbyaddr.3

Mats Wichmann

Add documentation for gethostbyaddr_r().

Plus a few other small fixes.

gethostbyname.3

mtk

Add gethostbyname2, gethostbyname2_r, gethostbyname_r, gethostent_r to NAME line.

getmntent.3

mtk

Fix misnamed function references.

getopt.3

Jon Burgess

Fix small error in example program.

getrpercent.3

mtk

Add setrpercent and endrpercent to NAME line.

gsignal.3

Aleksandr Koltsoff

Fix gsignal() prototype.

hsearch.3

mtk

Add hcreate_r, hdestroy_r, hsearch_r to NAME line.

inet.3

Maxime Bizon

Correct definition of "struct in_addr".

isatty.3

mtk

Minor wording fix.

isgreater.3

mtk

Add islessequal to NAME line.

lgamma.3

Vincent Lefevre

Fix CONFORMING TO section.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=417592>

log1p.3

mtk

Add log1pf and log1pl to NAME line.

longjmp.3

Paul Brook

/ mtk

After a call to longjmp(), the values of modified, non-volatile variables in the function that called setjmp() are unspecified.

makecontext.3

Aleksandr Koltsoff

Fix makecontext() prototype.

malloc.3

mtk / Tolga Dalman

Explain what happens for malloc(0), or calloc() where one of the arguments is 0.

mtk

Added notes on malloc()'s use of sbrk() and mmap().

mtk

Add mmap(2), alloca(3) to SEE ALSO.

mq_close.3

mq_getattr.3

mq_notify.3

mq_open.3

mq_receive.3

mq_send.3

mq_unlink.3

mtk

Add "Link with -lrt." to SYNOPSIS.

opendir.3

Ulrich Drepper; some edits and additional text by mtk

Document fdopendir().

readdir.3

mtk, after a note by Andi Kleen

Document DT_* constants for d_type.

Ulrich Drepper / mtk

Rework discussion of non-standard structure fields.

sem_wait.3

mtk

Minor improvements to example program.

syslog.3

mtk

Add vsyslog to NAME

section.

termios.3

Nicolas François

Fix XCASE feature test macro description.

wcsspn.3

Aleksandr Koltsoff

Add return type to prototype.

proc.5

mtk

Improve description of num_threads field under /proc/PID/stat.

Maxime Vaudequin

Fix path error (s%proc/sys%proc/sys/kernel%) in mentions of /proc/sys/ostype, /proc/sys/osrelease and proc/sys/version.

Maxime Vaudequin

I noticed things to correct and to clarify in subsection

"/proc/filesystems" of proc.5:

- clarify filesystems listing: not only FS compiled into the kernel, also FS kernel modules currently loaded
- add a reference to fs(5)
- add an explanation for FS marked with "nodev"
- s/mount(1)/mount(8)/, also corrected in section "SEE ALSO"
- clarify usage by mount: the current wording may lead to think /proc/filesystems is always used by mount when no FS is specified. So, usage of "may" which

IMHO is more

appropriate + additional explanations

In mount(8) we can see:

If no -t option is given, or if the auto type is specified, mount will try to guess the desired type. If mount was compiled with the blkid library, the guessing is done by this library. Otherwise, mount guesses itself by probing the superblock; if that does not turn up anything that looks familiar, mount will try to read the file /etc/filesystems, or, if that does not exist, /proc/filesystems. All of the filesystem types listed there will be tried, except for those that are labeled "nodev" (e.g., devpts, proc and nfs). If /etc/filesystems ends in a line with a single * only, mount will read /proc/filesystems afterwards.

Samuel Thibault

Since linux 2.6.11, /proc/stat has an eighth value for cpu

lines: stolen time, which is the time spent in other operating systems when running in a virtualized environment.

arp.7

Updated BUGS text referring to jiffies; refer to time.7 instead.

credentials.7

mtk

Add words to note that file system ID is Linux specific.

hier.7

Maxime Vaudequin

This is some corrections for hier.7:

- missing period for /media and /mnt
- /mnt description is not totally correct, it is true for some

distributions but in others /mnt is used as a temporary FS
mount point, as it is specified by FHS:
<http://www.pathname.com/fhs/pub/fhs-2.3.html#MNTMOUNTPOINTFORATEMPORARILYMOUNT>
- s/X-Windows/X-Window/ (3 occurrences)
- section "SEE ALSO": s/mount(1)/mount(8)/

man-pages.7

man.7

mdoc.7

mdoc.samples.7

mtk / Nicolas François

Nowadays tmac.XXX are called XXX.tmac.

pthreads.7

mtk

Update text about modern threading implementations

(NPTL vs LinuxThreads).

socket.7

mtk, after a note by Andi Kleen

Clarify that SO_SNDTIMEO and SO_RCVTIMEO only have effect for
socket I/O calls; not for multiplexing system calls like
select() and poll().

time.7

mtk

Add SEE ALSO reference to new timeradd.3.

==== Changes in man-pages-2.66 =====

Released: 2007-10-01

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Maxime Vaudequin <maxime.vaudequin@gmail.com>

Ollie Wild <aaw@google.com>

Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

fallocate.2

David Chinner, with some
input from Amit Amora and mtk

Describes the fallocate() system call, new in 2.6.23.

Changes to individual pages

close.2

Fredrik Noring

Add text cautioning about use of close() in
multithreaded programs.

execve.2

Ollie Wild / mtk

Add text describing limit on total size of argv + envp,
and changes that occurred with 2.6.23.

mtk

Add getopt(3) to SEE ALSO list.

open.2

mtk, Acked by Ulrich Drepper

Added description of O_CLOEXEC (new in 2.6.23) + other
minor fixes for O_DIRECT.

recv.2

mtk

Added description of MSG_CMSG_CLOEXEC (new in 2.6.23).

sysctl.2

mtk

Strengthened the warning against using this system call
and note that it may disappear in a future kernel version.

rpc.3

Mats Wichmann

Fix type definition for 'protocol' in prototypes of pmap_set()
and pmap_getport().

==== Changes in man-pages-2.67 =====

Released:

2007-10-08

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

Andi Kleen <andi@firstfloor.org>

Andrew Josey <a.josey@opengroup.org>

Maxime Vaudequin <maxime.vaudequin@gmail.com>

Apologies if I missed anyone!

Global changes

*.1p

*.3p

mtk, after a note by Andi Kleen and consultation with Andrew Josey.

Add a PROLOG section:

This manual page is part of the POSIX Programmer's Manual.

The Linux implementation of this interface may differ

(consult the corresponding Linux manual page for details

of Linux behavior), or the interface may not be implemented

on Linux.

*.0p

*.1p

*.3p

mtk

Some formatting fixes, mostly to get rid of unwanted
spaces before ", " in formatted output.

*

/

mtk

Change all occurrences of my email address in man-pages source
to
my new gmail address.

Many many pages

Maxime Vaudequin

I noticed useless use of macros with alternating formatting
(".IR" instead ".I" which suffices, ".BR" instead ".B", etc.)
because there is only one element. For example in ldconfig.8:

```
-.BR /sbin/ldconfig  
+.B /sbin/ldconfig
```

This is not very important, it only makes the sources more tidy.

To find these I used:

```
egrep '^.(B[RI]|R[IB]|I[RB]) ([^ ]+|\"[^\"]+\")$'
```

And if you want to make these changes, you can use:

```
sed 's/^\(.\[BRI]\)\[BRI]\( \([^\ ]+|\"[^\"]+\")\)$\1\2/g'
```

==== Changes in man-pages-2.68 =====

Released: 2007-11-19

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Sam Varshavchik <mrsam@courier-mta.com>

Timo Juhani Lindfors <timo.lindfors@iki.fi>

Ulrich Drepper <drepper@redhat.com>

Apologies if I missed anyone!

Global changes

facestat.2

fchmodat.2

fchowmat.2

fstatat.2

futimesat.2

linkat.2

mkdirat.2

mknodat.2

readlinkat.2

renameat.2

symlinkat.2

mkfifoat.3

mtk, after <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=445436>

by Timo Juhani Lindfors

Added <fcntl.h> to SYNOPSIS.

Typographical or grammatical errors have been corrected in several places.

New pages

_syscall.2

mtk

Created as a new page, by taking the content specific to the _syscall() macros from intro(2).

Changes to individual pages

README

mtk

Brought up to date.

man-pages-*-Announce

mtk

Brought the info in here up to date.

intro.1

mtk

Added intro paragraph about section, plus a paragraph about exit status values.

Move "user intro" text to NOTES.

get_mempolicy.2

mtk

Reorder ERRORS sections alphabetically

intro.2

mtk

Pretty much a complete rewrite, covering some additional topics.

Moved _syscallN() material to new _syscall(2) page.

mbind.2

mtk

Reorder ERRORS sections alphabetically

mmap.2

Maxime Vaudequin

Fix syntax error in example program.

prctl.2

mtk

Linux 2.6.22 added support on Alpha for PR_SET_UNALIGN.

ptrace.2

Nicolas François / mtk

s/PTRACE_POKEUSR/PTRACE_POKEUSER/

s/PTRACE_PEEKUSR/PTRACE_PEEKUSER/

read.2

mtk / Geoff Clare

Add text describing timerfd EINVAL error for read(2).

set_mempolicy.2

mtk

Reorder ERRORS

sections alphabetically

syscall.2

mtk

Added _syscall(2) and intro(2) to SEE ALSO section.

syscalls.2

mtk

Added fallocate(2); removed timerfd(2).

sysinfo.2

mtk

Removed reference to example in intro(2).

dlopen.3

mtk

Added "Link with -ldl." to SYNOPSIS.

getaddrinfo.3

Ulrich Drepper / mtk

Remove references to getipnodebyname.3 and getipnodebyaddr.3.

gethostbyname.3

mtk / Ulrich Drepper

Remove SEE ALSO references to getipnodebyname.3 and getipnodebyaddr.3.

Pádraig Brady / mtk / Ulrich Drepper

Point out that the functions described on this page are made obsolete by getaddrinfo(3) and getnameinfo(3).

getipnodebyname.3

mtk

Clarify that glibc does not implement these functions.

glob.3

Ulrich Drepper / mtk

Fix description of GLOB_ONLYDIR.

mtk

Added description of GLOB_TILDE_NOMATCH.

Expanded the description of various flags.

Various

wording fixes..

intro.3

mtk

Pretty much a complete rewrite, covering some additional topics.

posix_fallocate.3

mtk

Add SEE ALSO referring to fallocate.2.

rpc.3

Sam Varshavchik

Add some arg declarations to prototypes; fix typos.

setbuf.3

Mike Frysinger

Fix text in BUGS section.

sigset.3

mtk

The sigset() bugs were fixed in glibc 2.5.

See http://sourceware.org/bugzilla/show_bug.cgi?id=1951

intro.4

mtk

Minor rewrites.

st.4

Maxime Vaudequin

Various small corrections, formatings and modifications.

elf.5

Mike Frysinger

Document:

- new p_flag: PT_GNU_STACK

- new sections: .gnu.version .gnu.version_d .gnu.version_r
.note.GNU-stack

- new structures: ElfN_Verdef ElfN_Verdaux ElfN_Verneed
ElfN_Vernaux

intro.5

mtk

Minor rewrites.

proc.5

Ivana Varekova / mtk

Add text noting that since kernel 2.6.16, /proc/slabinfo is only available if CONFIG_SLAB is enabled.

Maxime Vaudequin

Update description of /proc/pci.

Maxime Vaudequin

Give italic formatting to file names in proc.5.

mtk

The display type of the /proc/PID/stat fields changed

%lu to %u in Linux 2.6.22:

- flags

- rt_priority

- policy

slabinfo.5

Ivana Varekova / mtk

Add text noting that since kernel 2.6.16, /proc/slabinfo is only available if CONFIG_SLAB is enabled.

intro.6

mtk

Minor rewrites.

bootparam.7

Maxime Vaudequin

Update references to files in kernel "Documentation" directory.

intro.7

mtk

Minor rewrites.

ipv6.7

Andrew McDonald

Fix description of IPV6_ROUTER_ALERT option.

standards.7

mtk

Note online location of C99 standard.

intro.8

mtk

Some rewrites, plus new paragraph on exit status values.

===== Changes in man-pages-2.69 =====

Released:

2007-12-03

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Mike Frysinger <vapier@gentoo.org>

Reuben Thomas <rrt@sc3d.org>
Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

Global changes

*.[013]p

mtk

Many whitespace clean-ups in formatted output.

mprotect.2

bind.2

mq_notify.3

makecontext.3

fmemopen.3

David Härdeman / mtk

Rename error handling function in example program

(s/die/handle_error/).

Typographical or grammatical errors have been corrected in several places.

Removed

pages

HOWTOHELP

MAINTAINING

mtk

The content of these files is now available in HTML format.

New links

cfsetspeed.3

mtk

Link to termios.3.

Changes to individual pages

time.1

Alain Portal

Added "Linux User's Manual" to .TH line.

_syscall.2

aeb / mtk

Remove outdated text about pointer blocks for syscalls that have more than 5 arguments.

fcntl.2

J. Bruce Fields

Add warning that mandatory locking is unreliable.

J. Bruce Fields

Clarify details in description of file leases.

J. Bruce Fields / mtk

Minor wording edits.

J. Bruce Fields

Add F_GETLEASE under RETURN VALUE.

mmap.2

mtk

Handle errors using a custom handle_error() macro.

sched_setscheduler.2

Mats Wichmann

Add BUGS text noting that the return value from Linux sched_setschuler() does not conform to POSIX.

spu_create.2

Jeremy Kerr

Various updates and improvements.

Luke Browning

Refinement of text describing a "gang".

mtk

Minor edits.

spu_run.2

Jeremy Kerr

Various updates and improvements.

mtk

Minor edits.

err.3

mtk

Remove HISTORY section.

fopen.3

Mike Frysinger

Document 'e' (close-on-exec) option, new in glibc 2.7.

getloadavg.3

Alain Portal / mtk

Remove HISTORY section.

printf.3

Andries E. Brouwer / mtk

Fix the discussion of stdarg macros in the description of vprintf() description.

sem_wait.3

mtk

Handle errors using a custom handle_error() macro.

sigsetops.3

Mats Wichmann

Note that sigset_t objects must be initialized with sigemptyset() or sigfillset() before the other macros are employed.

termios.3

mtk, after a note by Alain Portal

Added cfsetpspeed() to SYNOPSIS. Added text under CONFORMING TO noting that cfsetpspeed() is BSD specific.

ttyslot.3

Alain Portal

Various references to "getty" were changed to "mingetty", since that is the manual page more likely to be found on current systems. (Completes changes that were made in man-pages-2.44.)

initrd.4

mtk, after a note by Alain Portal

Move "Configuration" section to top of page (like other section 4 pages) and make it a .SH section.

full.4

mtk

Re-ordered CONFIGURATION section to go before DESCRIPTION.

sk98lin.4

Maxime Vaudequin

Fix reference to kernel Documentation file.

elf.5

mtk

Renamed HISTORY section to NOTES, and removed BSD specific info.

proc.5

Maxime Vaudequin

Mention grub(8) in same sentence as lilo(8).

Maxime Vaudequin

Improve description of /proc/sys/abi and
/proc/sys/kernel/modprobe.

utmp.5

Alain Portal

Various references to "getty" were changed to "mingetty", since
that is the manual page more likely to be found

on current

systems. (Completes changes that were made in man-pages-2.44.)

iso_8859-2.7

Adam Borowski

Reverse the 2.68 change applied by mtk in response to
<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=445085>
that replaced "Sorbian" with "Serbian".
(Sorbian is a language of 50000 people in Brandenburg.)

man-pages.7

mtk

Added CONFIGURATION to list of "standard" section names.

spufs.7

Jeremy Kerr

Various updates and improvements.

mtk

Minor edits.

tcp.7

Maxime Vaudequin

Fix reference to kernel Documentation file.

==== Changes in man-pages-2.70 =====

Released: 2007-12-06

Global changes

Many pages

mtk

Remove section numbers for page references where the
reference refers to the page itself. (This stops man2html
producing links from a page back to itself.)

Typographical or grammatical errors have been corrected
in several places.

Changes to individual pages

get_mempolicy.2

mtk

Add CONFORMING TO section.

io_getevents.2

mtk

Remove redundant SEE ALSO entry.

mbind.2

mtk

Add CONFORMING TO section.

msgop.2

mtk

Remove redundant SEE ALSO entries.

sigprocmask.2

mtk

Remove redundant SEE ALSO entry.

splice.2

mtk

Remove redundant SEE ALSO entry.

Add SEE ALSO referring to vmsplice(2).

csin.3

mtk

Remove redundant SEE ALSO entry.

Add SEE ALSO referring to ccos(3).

gethostbyname.3

mtk

Add gethostbyaddr_r to NAME section.

rint.3

mtk

Remove redundant SEE ALSO entry.

sigsetops.3

mtk

Minor rewording.

epoll.7

mtk

Minor rewording.

===== Changes in man-pages-2.71 =====

Released: 2007-12-14

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Mats Wichmann <mats.d.wichmann@intel.com>

Pascal MALAISE <malaise@magic.fr>

Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

Global changes

err.3

fts.3

getloadavg.3

queue.3

rcmd.3

rexec.3

stdin.3

elf.5

operator.7

mtk

Replaced the use of mdoc macros on these pages with man macros. The only pages in man-pages that still use mdoc macros are mdoc.7 and mdoc.samples.7.

Typographical or grammatical errors have been corrected in several places.

Deleted pages

TODO

mtk

This information is now on the website.

Changes to individual pages

Changes.old

mtk

Reformat various change log entries to use a consistent format.

Expand Debian bug report numbers to be URLs.

Other minor tidy-ups.

fcntl.2

mtk

Document the F_DUPFD_CLOEXEC operation, which is new in kernel 2.6.24.

listen.2

Josh Triplett

Fix incorrect path for somaxconn.

getpw.3

Alain PORTAL

Add ENOENT error to ERRORS.

sysconf.3

Mats Wichmann

Add documentation of _SC_NPROCESSORS_CONF and _SC_NPROCESSORS_ONLN.

tty.4

John Sigler

Add tty_ioctl(4) to SEE ALSO list.

regex.7

Pascal MALAISE <malaise@magic.fr>

Separate text on back references from that describing basic regexps, as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=379829>.

mtk

Remove cruffy text about word boundaries.

==== Changes in man-pages-2.72 =====

Released: 2007-12-14

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Maxime

Vaudequin <maxime.vaudequin@gmail.com>

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Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

Global changes

Various pages

Alain PORTAL / mtk

Format include files consistently ("I <.*\h>").

Various pages

Alain PORTAL / mtk

Format pathname in italics (.I).

dbopen.3

mpool.3

recno.3

Alain PORTAL

Remove brackets ([]) around error names.

console.4

tty.4

ttyS.4

issue.5

ttytype.5

utmp.5

mtk / Maxime Vaudequin

Some systems have mingetty(8), others have agetty(8), so both should be mentioned when we are talking about getty-style programs.

Typographical or grammatical errors have been corrected in several places.

Renamed pages

filesystems.5

mtk / Alain PORTAL

Was previously fs.5

New links

argz.3

Bert Wesarg / mtk

Link to argz_add.3.

envz.3

Bert Wesarg / mtk

Link to envz_add.3.

fs.5

mtk / Alain PORTAL

Link to filesystems.5.

Changes to individual pages

readahead.2

Rob Weryk

Fix declaration of 'offset' in SYNOPSIS.

seteuid.2

mtk

s/SETGUID/SETEUID/ in .TH line.

__setfpucw.3

mtk

Fixed include files references / formatting.

abort.3

mtk, after a note by Alex Tuninga

A fairly significant rewrite to clarify operation of abort().

argz_add.3

Bert Wesarg / mtk

s/envz/envz_add/ in SEE ALSO.

basename.3

mtk

s/DIRNAME/BASENAME/ in .TH line, and swap function names in NAME section.

envz_add.3

Bert Wesarg / mtk

s/argz/argz_add/ in SEE ALSO.

flockfile.3

mtk

s/LOCKFILE/FLOCKFILE/ in .TH line.

getgrent_r.3

mtk

s/GETGRENT/GETGRENT_R/ in .TH line.

stdio.3

Sam Varshavchik

Reformat function list at end of page as a proper table.

ttyslot.3

Maxime Vaudequin

Revert earlier s/getty/mingetty/. This page talks about historical behavior, and that means "getty(8)".

undocumented.3

mtk

Remove reference to "obstack stuff"; it's not clear what that is about.

console_ioctl.4

mtk

s/CONSOLE_IOCTL/CONSOLE_IOCTL/ in .TH line.

proc.5

mtk

s/fs (5)/filesystems (5)/

man-pages.7

mtk / Alain PORTAL

Improve discussion of formatting of file names.

==== Changes in man-pages-2.73 =====

Released: 2007-12-14

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Alain Portal <aportal@univ-montp2.fr>

Pádraig Brady <P@draigBrady.com>

Reuben Thomas <rrt@sc3d.org>

Apologies if I missed anyone!

Global changes

Various pages

Alain PORTAL

Formatting fixes.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

mknod.2

mtk, after a report

by Reuben Thomas

Clarify use of mkfifo() versus mknod().

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=455825>

fgetgrent.3

mtk

Small rewording.

fgetpwent.3

mtk

Small rewording.

rcmd.3

mtk

Noted feature test macro requirements.

BUGS: noted that iruserok() is not declared in glibc headers.

filesystems.5

mtk

Added Reiserfs, XFS, JFS to list of file systems.

===== Changes in man-pages-2.74 =====

Released: 2007-12-20

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Sam Morris <sam@robots.org.uk>

Sam Varshavchik <mrsam@courier-mta.com>

Samuel Thibault <samuel.thibault@ens-lyon.org>

Apologies if I missed
anyone!

Global changes

Various pages

Alain PORTAL

Formatting fixes.

Various pages

mtk / Alain Portal

s/^`..."..."/

Various pages

mtk

s/epoch/Epoch/

Various pages

mtk

Make the standard indent for code samples, shell session

logs, etc. to be ".in +4n".

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

_syscall.2

mtk

Nowadays there is _syscall6() also.

chroot.2

mtk

Various minor formatting changes.

epoll_wait.2

mtk

Fix types in structs.

Formatting fixes.

mount.2

mtk, after a note by Sam Morris

Clarify that MS_NODIRATIME provides a subset of the functionality provided by MS_NOATIME.

sched_setaffinity.2

mtk

Minor rearrangement of text.

select_tut.2

mtk

Fix (my) typos in argument names.

Formatting fixes.

spu_create.2

Jeremy

Kerr

We can use context FDs for the dirfd argument to the *at() syscalls.

times.2

mtk, after a note from David Brown and Andrew Morton

<http://marc.info/?l=linux-kernel&m=119447727031225&w=2>

Rework the text describing the return value to be closer to the requirements of POSIX.1; move Linux details to NOTES and add a warning not to rely on those details.

Add a warning about the -1 to -4095 bug which results in a 41 second window where the glibc wrapper will wrongly

return -1 indicating an error.

mtk

Remove cruft HZ text.

Clarify text describing return value of clock(3).

getw.3

Mats Wichmann

CONFORMING TO: getw() and putw() were in SUSv2, but are not in POSIX.1-2001.

hash.3

mtk / Alain Portal

Minor rewordings + formatting fixes.

st.4

Alain Portal / mtk

Many formatting fixes.

mtk

Place ERRORS in alphabetical order.

vcs.4

Samuel Thibault

Document VT_GETHIFONTMASK (new in 2.6.18) and add to example program; attribute/text characters are in the host byte order.

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=456437>

mtk

Minor edits.

bootparam.7

Alain PORTAL

Formatting fixes.

inotify.7

mtk

Minor heading changes and reformatings.

man-pages.7

mtk

Note that code segments, structure definitions, shell session logs, should be indented by 4 spaces.

spufs.7

Jeremy Kerr

Add a little information about the differences to mbox.

==== Changes in man-pages-2.75 =====

Released: 2008-01-08

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Timo Sirainen <tss@iki.fi>
Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes

Various pages

mtk

(Grammatical) hyphenation was fixed in many places.

epoll_wait.2
mbind.2
spu_run.2
ecvt.3
fmtmsg.3
getnameinfo.3
rtc.4
proc.5
charsets.7
ip.7
ipv6.7
raw.7
uri.7

Justin Pryzby / mtk

Fix incorrect usage of "a" and "an" before following vowel /
consonant, by reviewing the output of the following scripts:

```
for a in $(wc */*.*? | awk '$1 > 10 {print $4}' | gv total); do
  echo $a
  MANWIDTH=4000 man -l $a 2>/dev/null |
  egrep '(^|)an [^aeiou][a-z]'
done | less
```

```
for a in $(wc */*.*? | awk '$1 > 10 {print $4}' | gv total); do
  echo $a
  MANWIDTH=4000 man -l $a 2>/dev/null
|
  egrep '(^|)a [aeiou][a-z]'
done| less
```

err.3

fts.3

queue.3

rcmd.3

rexec.3

stdin.3

elf.5

mtk, after a note by Alain Portal

Improve macros used in 2.71 to convert from "mdoc" to "man".

_exit.2

chroot.2

getgid.2

getpid.2

getrusage.2

getsid.2

gettid.2

getuid.2

iopl.2

kill.2

personality.2

pivot_root.2

ptrace.2

sched_setparam.2

sched_setscheduler.2

sched_yield.2

seteuid.2

setgid.2

setpgid.2

setresuid.2

setreuid.2

setuid.2

unlink.2

wait.2

openpty.3

raise.3
setlogmask.3
sleep.3
ttyslot.3
ulimit.3
tty.4
tty_ioctl.4
path_resolution.7
 mtk
 s/current process/calling process/

cacheflush.2
clone.2
fcntl.2
getitimer.2
getrlimit.2
mmap.2
mprotect.2
times.2
adjtime.3
byteorder.3
inet.3
offsetof.3
rtc.4
icmp.7
pipe.7
time.7
 mtk
 s/x86/i386/ since that is the name used in 'arch' directories
 in the kernel source, and previously both i386 and x86 were both
 used in man pages; also nowadays 'x86' is somewhat ambiguous,
 since it is the name of the 'arch' directory for i386 and x86-64.

conj.3
cacos.3
cacosh.3
cabs.3
carg.3
casin.3
casinh.3
catan.3
catanh.3
ccos.3
ccosh.3
cexp.3
cimag.3
clog.3
cosh.3

creal.3

csin.3

csinh.3

ctan.3

ctanh.3

sinh.3

tanh.3

mtk

Various reformattings.

Various pages

Alain Portal

Formatting fixes.

mlock.2

mprotect.2

mpool.3

offsetof.3

Alain Portal

Format SYNOPSIS in a manner consistent with other pages.

Various pages

mtk / Alain Portal

Format casts so that there is a non-breaking space after the type, and remove unnecessary parentheses around the casted value.

Thus, for example, the following:

```
.IR "(size_t) (-1)" .
```

becomes:

```
.IR "(size_t)\|-1" .
```

Various pages

mtk / Alain Portal

Replace "-" by "\-" where a real dash is required.

Various pages

mtk

Make the formatting of instances of '*varname' consistent, changing instances such as:

```
.RI * varname
```

to:

```
.I *varname
```

pciconfig_read.2
nfsservctl.2
bstring.3
cpow.3
getipnodebyname.3
getpwnam.3
getrpcent.3
lsearch.3
malloc_hook.3
mpool.3
stdin.3
strtol.3
strtoul.3
unlocked_stdio.3
regex.3
sd.4
resolv.conf.5
utmp.5
futex.7

mtk

Format SYNOPSIS consistently.

drand48.3
drand48_r.3
flockfile.3
erf.3
sigvec.3
timeradd.3
wprintf.3

mtk, after a note by Alain Portal

Standardize sentence used under "Feature Test Macro Requirements"
when referring to all functions shown in the SYNOPSIS.

get_kernel_syms.2
getdents.2
getitimer.2
nanosleep.2
query_module.2
statvfs.2
clock_getres.3
getaddrinfo.3
getgrent.3
getipnodebyname.3
console_ioctl.4
tty_ioctl.4
rtnetlink.7

mtk

Indent structure definitions by +4n.

recv.2
btree.3
dbopen.3
ether_aton.3
fts.3
hash.3
mpool.3
profil.3
rcmd.3
recno.3
rpc.3
xdr.3
console_ioctl.4
ddp.7
ip.7
ipv6.7
svipc.7
mtk

Use C99 standard types in declarations.

s/u_long/unsigned

long/

s/ulong/unsigned long/

s/u_char/unsigned char/

s/u_short/unsigned short/

s/ushort/unsigned short/

s/u_int8_t/uint8_t/

s/u_int16_t/uint16_t/

s/u_int32_t/uint32_t/

s/u_int/unsigned int/

exit_group.2
fallocate.2
getdents.2
ioctl_list.2
nfsservctl.2
sched_setaffinity.2
set_tid_address.2
ustat.2
argz_add.3
confstr.3
envz_add.3
getline.3
getpwnam.3
gets.3
getw.3
inet_ntop.3
inet_pton.3

offsetof.3
console_ioctl.4
termcap.5
ascii.7
feature_test_macros.7
netlink.7
operator.7
svipc.7
mtk
Fix unbalanced .nf/.fi pairs.

chmod.2
getxattr.2
listxattr.2
lseek.2
removexattr.2
setxattr.2
stat.2
feature_test_macros.7
fpathconf.3
fopen.3

mtk
Rename argument: s/file*des/fd/ , since that is the name most commonly used on man pages for a file descriptor argument.

bindresvport.3
des_crypt.3
getopt.3
getrcent.3
realpath.3
rpc.3
xdr.3
mtk
Removed
.SM macros.

madvise.2
getdirentries.3
printf.3
sigvec.3
mtk
Remove extraneous .br macro before/after .SH/.SS.

_syscall.2
lookup_dcookie.2
aio_cancel.3
aio_error.3

aio_fsync.3
aio_read.3
aio_return.3
aio_write.3
canonicalize_file_name.3
envz_add.3
getgrouplist.3
getttyent.3
key_setsecret.3
mtrace.3
tcgetpgrp.3
tcgetsid.3
ttyslot.3
tty_ioctl.4

mtk

Remove extraneous .sp macros.

fcntl.2
outb.2
send.2
syscalls.2
getopt.3
proc.5
man-pages.7
standards.7
tcp.7

mtk

Remove/replace extraneous .sp macros.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

_syscall.2

mtk

Nowadays there are seven macros (see 2.74 change log also).

arch_prctl.2

mtk, Acked by Andi Kleen

Clarify interpretation of 'addr'; plus a few other minor edits
and updates.

bind.2

mtk

Minor rewrites.

close.2

mtk

Clarify relationship between file descriptor
and open file
description.

connect.2

mtk, Acked by Andi Kleen

Since kernel 2.2, AF_UNSPEC for unconnecting a connected
socket *is* supported.

execve.2

Alain Portal

Minor rewordings.

futimesat.2

Alain Portal

Remove duplicate "#include <fcntl.h>" from SYNOPSIS.

getgid.2

mtk

Add getresgid(2) and credentials(7) to SEE ALSO.

getpagesize.2

mtk

Small rewording.

getresuid.2

mtk

Rewrote various parts.

getuid.2

mtk

Add getresuid(2) and credentials(7) to SEE ALSO.

ioctl_list.2

Alain Portal

Use proper tables for layout, and various formatting fixes.

mtk

Various formatting fixes.

listen.2

mtk

Rewrote various parts.

mbind.2

Andi Kleen / mtk / Alain Portal

Modify explanation of EINVAL 'maxnode' error.

mmap.2

mtk

Add comma to clarify meaning of a sentence.

open.2

mtk

Clarify initial description of O_EXCL.

Clarify

description of behaviors of O_CREAT | O_EXCL

for symbolic links.

Clarify text describing use of lockfiles without O_EXCL.

mtk, with input from Timo Sirainen and Trond Myklebust

O_EXCL is supported on NFSv3 and later, with Linux 2.6 and later.

pipe.2

mtk

Rename 'filedes' argument 'pipefd'.

pivot_root.2

mtk

s/cwd/current working directory/

seteuid.2

mtk

Minor changes.

setpgid.2

mtk

Add credentials(7) to SEE ALSO, and updated copyright credits,
to reflect my rewrite of a few months ago.

setsid.2

mtk

Add getsid(2) and credentials(7) to SEE ALSO.

spu_create.2

Alain Portal / mtk; acked by Jeremy Kerr

Minor formatting/wording changes.

mtk

Put EPERM in right alphabetical position in ERRORS list.

argz_add.3

mtk

Formatting fixes.

atexit.3

mtk

Minor changes to example program.

cerf.3

mtk

These functions are still not present as
at glibc 2.7.

dbopen.3

Alain Portal / mtk

Various minor spelling and formatting fixes.

envz_add.3

mtk

Formatting fixes.

fexecve.3

mtk

Fix placement of feature test macro in SYNOPSIS.

fmax.3

fmin.3

mtk

Small rewording.

getline.3

mtk

Minor changes to example program.

getrpercent.3

getrpcport.3

mtk

Use modern C prototypes in SYNOPSIS.

getutent.3

Alain Portal / mtk

Formatting fixes.

mbsnrtowcs.3

mbsrtowcs.3

mbstowcs.3

mtk

Use .IP tags to create properly formatted lists.

rpc.3

mtk

Convert function declarations to use modern C prototypes.

Add text and start of page describing header files

and types required by functions.

Reformat discussion of request under `clnt_control()`.

xdr.3

mtk

Convert function declarations to use modern C prototypes.

Remove crufty "int empty" from `xdrrec_eof()` description.

console_codes.4

Phil Endecott

Relocate misplaced line:

"and if LF/NL (new line mode) is set also a carriage return;"

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=458338>.

console_ioctl.4

mtk

Formatting fixes.

bootparam.7

mtk, after a note by Alan Portal

Fix reference to kernel documentation source file in the

"The Sound Driver" subsection.

man-pages.7

Alain Portal

Move CONFIGURATION description after SYNOPSIS description.

mtk / Alain Portal

Note that header files should be surrounded by angle brackets (`<>`).

posixoptions.7

mtk

Minor formatting and wording fixes.

rtnetlink.7

Andreas Henriksson

Fix description of `RTM_F_EQUALIZE`.

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=458325>.

signal.7

mtk

Minor formatting and wording fixes.

socket.7

mtk

Small rewording of discussion of `O_ASYNC`.

spufs.7

mtk / Jeremy Kerr / Alain Portal

=====
Changes in man-pages-2.76 =====

Released: 2008-01-14

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Jeremy Kerr <jk@ozlabs.org>
Sam Varshavchik <mrsam@courier-mta.com>
Trond Myklebust <trond.myklebust@fys.uio.no>

Apologies if I missed anyone!

Global changes

longjmp.3
printf.3
scanf.3
setbuf.3
setjmp.3
sk98lin.4
environ.7
mtk
 Rework/remove use of ".ad" macros.

ioctl_list.2
mlock.2
mprotect.2
mremap.2
syslog.2
cfree.3
mpool.3
offsetof.3
rpc.3
stdin.3
mtk

Fix unbalanced quotes in formatting macros.

ftok.3

mtk

s/i-node/inode/, for consistency with other pages and POSIX.1-2001.

Typographical or grammatical errors have been corrected in several places.

Changes to individual pages

chown.2

mtk

Minor wording change.

dup.2

mtk

Reordered text in DESCRIPTION and added some details for dup2().

open.2

Trond Myklebust / mtk

Minor fix to O_EXCL changes in previous release.

gettid.2

mtk

Rewrote DESCRIPTION; noted that thread ID is not the same thing as a POSIX thread ID.

pipe.2

mtk

Rewrote DESCRIPTION; minor additions to EXAMPLE text.

umask.2

mtk

A few rewrites and additions.

strptime.3

Carlo Marcelo Arenas Belon / mtk

Add "#define _XOPEN_SOURCE" to example program.

initrd.4

mtk

Use quotes more consistently in formatting macros.

random.4

mtk, after a report by Daniel Kahn Gilmor

Add 2.6 details for /proc/sys/kernel/random/poolsize.
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=459232>.

pthreads.7

mtk

Minor changes.

spufs.7

mtk / Jeremy Kerr

Define abbreviation "MSS".

===== Changes in man-pages-2.77 =====

Released:

2008-01-31

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Phil Endecott <phil_vonar_endecott@chezphil.org>

Thomas Huriaux <thomas.huriaux@gmail.com>

Vincent Lefevre <vincent@vinc17.org>

WANG Cong <xiyou.wangcong@gmail.com>

Apologies if I missed anyone!

Global changes

stdarg.3

bootparam.7

Thomas Huriaux

Fix broken use of single quotes at start of line,

as per: <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=462636>

Typographical or grammatical errors have been corrected in several places.

New pages

remove_COLOPHON.sh

mtk

Script to remove the COLOPHON section from the man pages provided as command-line arguments. This is useful to remove the COLOPHON sections from all of the man pages in two different release trees in order to do a "diff -ruN"

to see the "real" differences between the trees.

Changes to individual pages

fcntl.2

mtk

Replace tables with .TP macros.

fork.2

mtk

Added discussion of directory streams.
Removed "#include <sys/types>" from SYNOPSIS.
Changed authorship notice.

futex.2

mtk

Add ENOSYS error to errors.
Phil Endecott
Explicitly describe return value in the event of an error.

inotify_add_watch.2

mtk

Minor wording changes.

splice.2

WANG Cong

Fix types for 2 and 4 arguments in splice prototype.

wait.2

Phil Endecott

Clarify description of return value for WNOHANG.

tkill.2

mtk

Rewrote DESCRIPTION; emphasized that tkill() is obsoleted by tkill().

alloca.3

mtk

Change description in NAME section.

Various rewrites and additions (including notes on longjmp() and SIGSEGV).

mtk / Vincent Lefevre

Weaken warning

against use of alloca(), and

point out some cases where it can be useful;

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=461100>.

bootparam.7

Pavel Heimlich

Remove junk line.

inotify.7

mtk

Replace tables with .TP macros.

s/MultiSource Synchronization/MultiSource Synchronization (MSS)/

===== Changes in man-pages-2.78 =====

Released: 2008-02-15

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Greg Banks <gnb@melbourne.sgi.com>

Michael Tokarev <mjt@tls.msk.ru>

Phil Endecott <phil_vonar_endecott@chezphil.org>

Apologies if I missed anyone!

Global changes

sigaction.2

signal.2

sigwaitinfo.2

signal.7

mtk

Add SEE ALSO entry referring to new signalfd.2 page.

Typographical or grammatical errors have been corrected in several places.

New pages

eventfd.2

mtk, with input and review from Davide Libenzi
Documents the eventfd() system call, new in 2.6.22.

signalfd.2

mtk, with input and review from Davide Libenzi
Documents the signalfd() system call, new in 2.6.22.

Changes to individual pages

futex.2

mtk / Phil Endecott
Improve wording describing error returns.

open.2

Greg Banks
Greatly expand the detail on O_DIRECT.

reboot.2

mtk / Michael Tokarev
Fix RETURN VALUE description: in some cases reboot() does not return.

mtk

Rename the 'flag' argument to 'cmd', since that is more meaningful, and also what is used in the kernel source.
Other minor wording changes.

===== Changes in man-pages-2.79 =====

Released: 2008-03-07

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

Andries

E. Brouwer <Andries.Brouwer@cwi.nl>

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Samuel Thibault <samuel.thibault@ens-lyon.org>
Walter Harms <WHarms@bfs.de>

Apologies if I missed anyone!

Global changes

Typographical or grammatical errors have been corrected in several places.

New pages

timerfd_create.2

mtk, with input and review from Davide Libenzi
Documents the timerfd_create(), timerfd_settime(), and
timerfd_gettime() system calls, which are new in 2.6.25.

New links

timerfd_gettime.2

timerfd_settime.2

mtk
Links to new timerfd_create.2 page.

eventfd_read.3

eventfd_write.3

mtk
Links to eventfd.2.

Changes to individual pages

Makefile

aeb

Remove code relating to man1/README, which no longer exists.

execve.2

mtk

Clarify detail of RLIMIT_STACK/4 limit for argv+environ.

getitimer.2

mtk

Added SEE ALSO entry referring to timerfd_create.2.

getrusage.2

mtk

Minor rewordings.

open.2

Michael Haardt

Move discussion of 'mode' argument under description of O_CREAT.

signalfd.2

mtk

Fix type for 'ssi_ptr' field.

See <http://sources.redhat.com/ml/libc-hacker/2008-01/msg00002.html>.

syscalls.2

mtk

Add timerfd_create(), timerfd_settime(), and timerfd_gettime() to list.

syslog.2

Jeremy Kerr

Add info on command type 10.

Add details on types 6, 7, 8, and 9.

Minor grammar fix.

mtk

Update LOG_BUF_LEN details.

Update RETURN VALUE section.

Notes capability

requirements under EPERM error.

Minor fix to description of type==3 and type==4.

Other minor edits.

ctime.3

Walter Harms

Note that POSIX requires localtime() to act as though tzset()

was called, but localtime_r() does not have the same requirement.

See also <http://thread.gmane.org/gmane.comp.time.tz/2034/>

getaddrinfo.3

mtk

Clarify discussion of NULL 'hints' argument; other minor rewrites.

mtk / Sam Varshavchik

Remove some duplicated text.

malloc.3

Lasse Kärkkäinen / Mike Frysinger / mtk

Clarify description of realloc() behavior for
((size == 0) && (ptr != NULL)).

posix_fallocate.3

Samuel Thibault

s/stdlib.h/fcntl.h/ in SYNOPSIS.

proc.5

Fernando Luis Vázquez Cao

Update /proc/[number]/cmdline description.

It used to be true that the command line arguments were
not accessible when the process had been swapped out.

In ancient kernels (circa

2.0.*) the problem was that the

kernel relied on get_phys_addr to access the user space buffer,
which stopped working as soon as the process was swapped out.

Recent kernels use get_user_pages for the same purpose and thus
they should not have that limitation.

epoll.7

Davide Libenzi / mtk

Clarify the somewhat unintuitive behavior that occurs if a file
descriptor in an epoll set is closed while other file descriptors
referring to the same underlying open file description remain
open.

See also <http://thread.gmane.org/gmane.linux.kernel/596462/>.

mtk

Clarify error that occurs if we add an epoll fd to its own set.

mtk

A few minor rewordings.

mtk, after a note by Chris Heath

Rework Q1/A1, describing what happens when adding the same
file descriptor twice to an epoll set, and when adding duplicate
file descriptors to the same epoll set.

Heikki Orsila / mtk / Davide

Libenzi

Clarify Q9/A9 to discuss packet/token-oriented files.

mtk, after comments by Davide Libenzi and Chris Heath

Added Q0/A0, making explicit that the key for items in an epoll

set is [file descriptor, open file description].

mtk, after a note by Ron Burk

Change A3, to note that when events are available,
the epoll file descriptor will indicate as being readable.

mtk

Add some further explanation to Q5/A5 about why an epoll file
descriptor cannot be passed across a Unix domain socket.

posixoptions.7

mtk

Add SEE ALSO entry for standards(7).

regex.7

mtk

Add grep(1) to SEE ALSO.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=348552>.

standards.7

mtk

Add SEE ALSO entry for posixoptions(7).

time.7

mtk

Added SEE ALSO entry referring to timerfd_create.2.

===== Changes in man-pages-2.80 =====

Released: 2008-06-05

Contributors

The

following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

bdflush.2

inotify_add_watch.2

mprotect.2

sigprocmask.2

ctime.3

getusershell.3

setbuf.3

st.4

ip.7

packet.7

mtk

Replace "(il)legal" by "(not) permitted" or "(in)valid".

read.2

utime.2

filesystems.5

packet.7

mtk

s/time stamp/timestamp/, for consistency with majority use
in other pages, and in POSIX.1.

madvise.2
mbind.2
mincore.2
mmap.2
mmap2.2
msync.2
remap_file_pages.2

mtk

Change name of 'start' argument to 'addr' for consistency

with:

- * other memory-related interfaces
- * POSIX specification (for those interfaces in POSIX)
- * Linux and glibc source code (in at least some cases)

Various

pages

mtk

s/filesystem/file system/, for consistency with majority use
in other pages, and in POSIX.1.

Various pages

mtk

s/zeroes/zeros/, for consistency with majority use
in other pages, and in POSIX.1.

abs.3

proc.5

mtk

s/builtin/built-in/, for consistency with majority use
in other pages, and in POSIX.1.

mknod.2

ftw.3

mtk

s/normal file/regular file/

Various pages

mtk

s/nonempty/non-empty/

Various pages

mtk

s/nonzero/non-zero/

Various pages

mtk

s/realtime/real-time/, for consistency with majority usage.

Various pages

mtk

s/command line/command-line/ when used attributively.

Various pages

mtk

Use "run time" when non-attributive, "run-time" when attributive.

Various pages

mtk

Various pages that I wrote carried a slightly modified version of the "verbatim" license. In the interests of minimizing license proliferation,

I've reverted the modified form

so that the license is exactly the same as on other pages carrying the verbatim license.

epoll_ctl.2

getitimer.2

getrlimit.2

unix.7

mtk

s/since kernel x.y.z/since Linux x.y.z/

wait.2

inotify.7

mtk

Reformat kernel version information for flags.

Typographical or grammatical errors have been corrected in several places.

(Special thanks to Nicolas François.)

New pages

random_r.3

mtk, after a suggestion by aeb

Documents random_r(3), srandom_r(3), initstate_r(3), and setstate_r(3), which are the reentrant equivalents of random(3), srandom(3), initstate(3), and setstate(3).

New links

lutimes.3

mtk

Link to futimes.3.

initstate_r.3

setstate_r.3

srandom_r.3

mtk

Links to random_r.3.

daylight.3

timezone.3

tzname.3

mtk

Links to tzset.3.

isnanf.3

isnanl.3

mtk

Links to finite.3.

encrypt_r.3

setkey_r.3

mtk

Links

to encrypt.3.

Changes to individual pages

clone.2

mtk

Added note that CLONE_STOPPED (which no-one uses anyway) is now deprecated.

epoll_create.2

mtk

Add NOTES section pointing out that 'size' argument is unused since kernel 2.6.8.

epoll_ctl.2

mtk

Added portability note to BUGS text for EPOLL_CTL_DEL.

epoll_wait.2

mtk

If the 'sigmask' is NULL, then epoll_pwait() is equivalent to epoll_wait().

fork.2

mtk

NOTES: since glibc 2.3.3, the glibc NPTL fork() wrapper bypasses the fork() system call to invoke clone() with flags providing equivalent functionality.

futex.2

mtk, after a note from Adrian Bunk

FUTEX_FD has been removed, as of kernel 2.6.26.

futimesat.2

mtk

Note that this system call is made obsolete by utimensat(2).

getgroups.2

Petter Reinholdtsen

SEE ALSO: Add getgrouplist(3).

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=479284>.

mtk

NGROUPS_MAX increased in kernel 2.6.4.

SEE ALSO: Add credentials(7).

mtk

Reformat DESCRIPTION and RETURN VALUE sections to be more consistent with man-pages style.

Add some more detail to descriptions of system calls.

Clarified what happens if caller of getgroups() is a member of more than 'size' supplementary groups.

ERRORS: Add ENOMEM.

getpriority.2

mtk, after a note from Ingo Molnar

Add text in NOTES about the punchier effect of nice values in kernel 2.6.23 and later.

Add Documentation/scheduler/sched-nice-design.txt to SEE ALSO list.

gettid.2

mtk

Added VERSIONS section noting that this system call first appeared in 2.4.11.

kill.2

Marty Leisner / mtk

Add text explicitly noting that sig==0 can be used to check for the existence of a PID or PGID.

mtk

A few minor rewordings.

mbind.2

mtk

The location of the numactl package has changed.

mmap.2

mtk

Added some .SS headings to make structure of page a little more obvious.

mtk, with input from Nick Piggin

MAP_POPULATE supports both file and anonymous mappings.

Since 2.6.23, MAP_POPULATE supports private mappings.

Since 2.6.23, MAP_NONBLOCK causes MAP_POPULATE to be a no-op.

mtk

NOTES: Added details on mapping address that is selected by kernel when MAP_FIXED is / isn't specified.

mount.2

mtk

The MS_REMOUNT changes in 2.4 were at 2.4.10 (not 2.4).

mtk

Minor wording change.

msgctl.2

mtk

Clarify that "unused" fields in msginfo structure are "unused within the kernel".

msginfo.msgpool is measured in kilobytes, not bytes.

Minor rewordings in comments for msginfo structure.

msgop.2

mtk

Various minor rewordings and restructurings for clarity.

mtk, after a note from Reuben Thomas

Remove "msgop" from NAME section.

mkdir.2

mtk

Clarify meaning of "BSD group semantics".

SEE ALSO: add chown(2).

mknod.2

mtk

SEE ALSO: add chown(2) and chmod(2).

mmap.2

mtk

SEE ALSO: add mprotect(2) and shmat(2).

mprotect.2

Hamaji Shinichiro

SYNOPSIS: s/size_t *len/size_t len/

open.2

mtk

Note that O_CLOEXEC should be in the next POSIX.1 revision.

mtk

More than just ext2 supports "mount -o bsdgroups" nowadays, so make the discussion about group ownership of new files a bit more generic.

mtk

SEE ALSO: add chown(2) and chmod(2).

poll.2

mtk

If the 'sigmask' is NULL, then ppoll() is equivalent to poll() with respect to signal mask manipulations.

posix_fadvise.2

mtk

s/posix_madvise (2)/posix_madvise (3)/;
(The referred-to page still doesn't exist yet, but hopefully will do sometime soon.)

ptrace.2

Anoop, Aacked by Roland

McGrath.

Re PTRACE_PEEKUSER: the offsets and data returned might not match with the definition of struct user.

See also <http://lkml.org/lkml/2008/5/8/375>

recv.2

Felix Kater / mtk

Improve wording for EAGAIN error in discussion of MSG_DONTWAIT.

rmdir.2

Martin Pitt

POSIX.1 also allows EEXIST for the ENOTEMPTY error condition.

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=467552>.

sched_setscheduler.2

mtk, with input from Ingo Molnar

Add description of SCHED_IDLE policy (new in 2.6.23).

Tweak description of SCHED_BATCH.

Minor rewordings.

select_tut.2

Justin Pryzby

Various wording clean-ups.

semctl.2

mtk

Clarify that "unused" fields in seminfo structure are "unused within the kernel".

Minor rewordings in comments for seminfo structure.

semop.2

Aurelien Gerome

Small fix in example code.

setpgid.2

mtk / Karsten Weiss

Clarify description of setpgid() a little.

shmctl.2

mtk

Clarify that "unused" fields in shminfo structure are "unused within the kernel".

Minor rewordings in comments for shminfo structure.

shmop.2

mtk, after a note from Reuben Thomas

Remove "shmop" from NAME section.

signalfd.2

mtk

Added BUGS text noting that before kernel 2.6.25, the ssi_int and ssi_ptr fields are not set.

Added comments describing fields in signalfd_siginfo structure.

Update field names in example program (s/signo/ssi_signo/).

Various small fixes, and remove duplicated sentence.

Minor edits to structure definition.

sigqueue.2

mtk

Added some comments to code in NOTES.

stat.2

mtk

Minor wording change.

symlink.2

mtk

SEE ALSO: add lchown(2).

sync_file_range.2

mtk / Andrew Morton

Remove statement that (SYNC_FILE_RANGE_WAIT_BEFORE |
SYNC_FILE_RANGE_WRITE | SYNC_FILE_RANGE_WAIT_AFTER)

is

a traditional fdatsync(2) operation.

See https://bugzilla.mozilla.org/show_bug.cgi?id=421482
comments 129 to 131.

syscalls.2

mtk

This page is now up to date as at kernel 2.6.25.

syslog.2

mtk

Small tidy up of language relating to permissions/capabilities.

timerfd_create.2

mtk

Minor change to example program.

Minor wording change.

utime.2

Reuben Thomas

Remove unnecessary subheading for utimes().
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=477402>.

mtk

Change description in NAME line ("or" is not correct: these calls
always change *both* timestamps).

CONFORMING TO: utimes() is in POSIX.1-2001.

mtk

Rename 'buf' argument of utime() to 'times' (like utimes()).

Clarify explanation of EACCES and EPERM errors.

Remove BUGS section, since it doesn't seem to add useful
information.

Clarified discussion of capabilities,

and noted that

CAP_DAC_OVERRIDE also has a role.

Other minor rewordings.

wait.2

mtk, after a note by Justin Pryzby

Add a sentence clarifying that even though the default disposition
of SIGCHLD is "ignore", explicitly setting the disposition to
SIG_IGN results in different treatment of zombies.

aio_cancel.3

aio_error.3

aio_fsync.3

aio_read.3

aio_return.3

aio_suspend.3

aio_write.3

Kevin O'Gorman <kogorman@csc.calpoly.edu>

Add "Link with -lrt" to SYNOPSIS.

backtrace.3

Nicolas François

s/backtrace_symbols/backtrace_symbols_fd/ in one sentence.

mtk

Fix bogus reference to variable 'strings': should be:

"the array of pointers".

ctime.3

mtk

Add warning under NOTES that asctime(), ctime(), gmtime(), and localtime() may each overwrite the static object returned by any of the other calls.

Other minor edits.

dlopen.3

mtk

Add more detail to the description

of the fields in the

structure returned by dladdr().

fexecve.3

mtk

Clean up SYNOPSIS after work by cut-and-paste-Pete:

the necessary header file is <unistd.h> not <sys/time.h>!

futimes.3

mtk

Add documentation of lutimes(), which appeared in glibc 2.6.

mtk

Change description in NAME line ("or" is not correct: these calls always change *both* timestamps).

CONFORMING TO: futimes() did not come from 4.2BSD. (It came from FreeBSD; see the FreeBSD man page.)

getenv.3

mtk

Noted that caller must not modify returned value string.

Noted that getenv() is not reentrant: the buffer may be statically allocated and overwritten by later calls to getenv(), putenv(), setenv(), or unsetenv().

Other minor rewrites.

getgrent.3

Petter Reinholdtsen

SEE ALSO: Add getgrouplist(3).

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=479284>.

gethostbyname.3

mtk

Add 'h_errno' to NAME list.

getopt.3

mtk

Add 'optarg', 'optind', 'opterr', and 'optopt' to NAME section.

Add subheading for getopt_long() and getopt_long_only() description.

getpt.3

mtk

Point out that this function should be avoided in favor of posix_openpt().

Add ERRORS section referring to open(2).

getsubopt.3

Daniel Burr

SYNOPSIS: Fix declaration of valuep.

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=476672>.

malloc.3

mtk

RETURN VALUE: Note circumstances in which successful malloc() and calloc() can return NULL.

mq_open.3

mtk, after a note by Marty Leisner

Note that <fcntl.h> is needed for O_* constants and <sys/stat.h> is needed for 'mode' constants.

opendir.3

mtk

Describe treatment of close-on-exec flag by opendir() and fdopendir().

openpty.3

mtk

SEE ALSO: add ttyname(3).

raise.3

mtk / Timothy Baldwin

Clarify semantics of raise() when called from a multithreaded program.
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=476484>.

mtk

Rewrites and additions to various parts of the page.

rand.3

Tolga Dalman / aeb / mtk

Remove outdated warning in NOTES; encourage the use of random(3) instead.

Folkert van Heusden

Clarify wording describing range of values returned by rand().

random.3

aeb / mtk / Tolga Dalman

Recommend use of random_r(3) for multithreaded applications that need independent, reproducible sequences of random numbers.

Move references to "The Art of Computer Programming" and "Numerical Recipes", formerly in rand(3), to this page.

Add drand48(93) to SEE ALSO list.

regex.3

Heikki Orsila

Clarify description of 'rm_eo' field.

sem_open.3

mtk, after a note by Marty Leisner

Note that <fcntl.h> is needed for O_* constants and <sys/stat.h> is needed for 'mode' constants.

sem_post.3

mtk

Added pointer to example in sem_wait(3).

sem_close.3

sem_destroy.3

sem_getvalue.3

sem_init.3

sem_open.3

sem_post.3

sem_unlink.3

sem_wait.3

mtk, after a note from Marty Leisner

Add text to SYNOPSIS noting the need to link with "-lrt" or

"-pthread".

setenv.3

mtk

setenv() copies 'name' and 'value' (contrast with putenv()).

unsetenv() of a nonexistent variable does nothing and is considered successful.

Noted that setenv() and unsetenv() need not be reentrant.

shm_open.3

mtk, after a note by Marty Leisner

Note that <fcntl.h> is needed for O_* constants and <sys/stat.h> is needed for 'mode' constants.

undocumented.3

mtk

initstate_r(3), setkey_r(3), setstate_r(3) are now documented.

utmp.5

Nicolas François

Small rewording.

resolv.conf.5

Nicolas François

gethostname() is in Section 2, not section 3.

ascii.7

Stuart Brady

Fix rendering of ' (backtick) and apostrophe (') in tables

charsets.7

Nicolas François

[s/unicode.com/unicode.org/](https://unicode.com/unicode.org/)

credentials.7

mtk

NOTES: Pthreads requires that all threads share the same UIDs and GIDs. But the Linux kernel maintains separate UIDs and GIDs for every thread. NPTL does some work to ensure that credential changes by any thread are carried through to all POSIX threads in a process.

mtk

sysconf(_SC_NGROUPS_MAX) can be used to determine the number of supplementary groups that a process may belong to.

Clarify that supplementary group IDs are specified in POSIX.1-2001.

epoll.7

mtk, after a note from Sam Varshavchik

For answer A2, change "not recommended" to "careful programming may be required".

inotify.7

mtk

Document SIGIO feature (new in 2.6.25) for inotify file descriptors.

mtk

Note that select()/poll()/epoll_wait() indicate a ready inotify

file descriptor as readable.

mtk

Document IN_ATTRIB in a little more detail.

pthread.7

Justin Pryzby

Grammar fix, plus fix typo in script.

mtk

Add list of thread-safe functions.

standards.7

mtk

Add a section on the upcoming POSIX revision.

ld.so.8

Justin Pryzby / mtk

Various wording improvements.

==== Changes in man-pages-3.00 =====

Released: 2008-06-12, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

The POSIX.1 man pages (sections 0p, 1p, 3p) have been moved out of this package into the separate man-pages-posix package. This made sense because those pages are seldom changed (only formatting fixes, etc.) so that it was unnecessary to redistribute them with each man-pages release.

console_codes.4

random.4

dir_colors.5

proc.5

glob.7

Stuart Brady

`s/\`/`/` for backquotes used in command substitution, for proper rendering in UTF-8.

Various pages

mtk, after a note from Stuart Brady

Using `'x'` to denote a character (string) renders poorly in UTF-8, where the two `'` characters render as closing single quotes. On the other hand, using `^x'` renders nicely on UTF-8, where proper opening and closing single quotes are produced by `groff(1)`, but looks ugly when rendered in ASCII. Using the sequence `^\aqx\aq'` produces a reasonable rendering (`^\aq'` is a vertical "apostrophe quote") in both UTF-8 and ASCII. So that change is made in a number of pages. See also <http://www.cl.cal.ac.uk/~mgk25/ucs/quotes.html>.

Various pages

mtk

Replace form `^string'` by `/"string"/`, since the former renders poorly in ASCII.

termios.3

console_codes.4

tty_ioctl.4

termcap.5

charsets.7

mtk

Control character names (`^X`) are written boldface, without quotes.

printf.3

scanf.3

proc.5

glob.7

regex.7

mtk

Various edits to try and bring some consistency to the use of quotes.

Changes to individual pages

tty_ioctl.4

mtk

Small rewordings in description of packet mode.

locale.7

mtk

Minor formatting fixes.

===== Changes in man-pages-3.01 =====

Released: 2008-06-25, Munich

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

acct.5

mtk

A complete rewrite of this page, now with much more detail.

hostname.7

mtk

A description of hostname resolution. Taken from FreeBSD 6.2, and lightly edited for man-pages style.

symlink.7

mtk

A description of symbolic links. Taken from FreeBSD 6.2, but heavily edited for Linux details, improved readability, and man-pages style.

Newly documented interfaces in existing pages

getrlimit.2

mtk / Peter Zijlstra

Add description of RLIMIT_RTTIME limit, new in 2.6.25.

mkstemp.3

mtk

Add description of mkostemp(), new in glibc 2.7.

core.5

mtk, after a note by Petr Gajdos; review by Neil Horman

Document core_pattern pipe syntax, which appeared in kernel 2.6.19.

Add an example program demonstrating use of core_pattern pipe syntax.

mtk

Document /proc/PID/coredump_filter, new in kernel 2.6.23.

Documentation was based on the text in

Documentation/filesystems/proc.txt, plus testing, and

checking the kernel source.

proc.5

mtk

Document /proc/PID/oom_score, which was new in kernel 2.6.11.

This file displays the "badness" score of the process, which provides the basis for OOM-killer decisions.

mtk

Document /proc/PID/oom_adj, which was new in kernel 2.6.11.

This file influences the oom_score of a process.

mtk

Document /proc/PID/limits, which was new in 2.6.24.

This file displays a process's resource limits.

mtk

Document /proc/PID/fdinfo/*, which was new in 2.6.22.

These files display info about each descriptor opened by the process: the current file offset, and the file access mode + file status flags as set in open() or fcntl(F_SETFL).

mtk

Document /proc/PID/mountinfo, which was new in 2.6.26.

This file displays information about mount points.

Closely based on text from Documentation/filesystems/proc.txt.

mtk

Document /proc/PID/mountstats,

which was new in 2.6.17.

This file displays statistics about mount points.

mtk

Document /proc/PID/status.

Samuel Thibault / mtk, review by Laurent Vivier,

Christian Borntraeger, and Andrew P

Document guest (virtual CPU) time field in /proc/stat.

Document guest (virtual CPU) time fields in /proc/PID/stat.

New links

mkostemp.3

mtk

Link to mkstemp.3.

getcwd.2

mtk

Link to getcwd.3, which describes several interfaces, among them getcwd(), which is in fact a system call.

Global changes

sched_setaffinity.2

sched_setscheduler.2

set_mempolicy.2

mbind.2

mtk

SEE ALSO: Add cpuset(7).

chown.2

facecessat.2

fchmodat.2

fchownat.2

fstatat.2

getxattr.2

link.2

linkat.2

listxattr.2

open.2

readlink.2

removexattr.2

rename.2

setxattr.2

stat.2

symlink.2

symlinkat.2

unlink.2

futimes.3

remove.3

path_resolution.7

mtk

SEE ALSO: Add symlink(7).

intro.1

time.1

fcntl.2

gethostbyname.3

ioctl_list.2

mtk

Wrap source lines so that new sentence starts on new line.

addseverity.3
backtrace.3
dlopen.3
fmtmsg.3
getnameinfo.3
getpt.3
grantpt.3
makecontext.3
ptsname.3
tcgetsid.3
unlockpt.3
wordexp.3

mtk

Added VERSIONS section.

msgctl.2
msgget.2
semget.2
semop.2
pciconfig_read.2
basename.3
cmsg.3
ftok.3
console_ioctl.4
tzfile.5
mq_overview.7
pty.7

mtk

For consistency, "fix" cases where argument of .B or .I was
on the following source line.

adjtimex.2
getrusage.2
io_getevents.2
poll.2
select.2
semop.2
sigwaitinfo.2
aio_suspend.3
clock_getres.3
mq_receive.3
mq_send.3
sem_wait.3
proc.5

mtk

SEE ALSO: add time(7)

Typographical or grammatical errors have been corrected in several places.
(Special thanks to Nicolas François and Alain Portal.)

Changes to individual pages

acct.2

mtk

Add a few more words to DESCRIPTION.

NOTES: Add pointer to acct(5).

alarm.2

Alain Portal

s/process/calling process/ so as to say that the alarm signal is delivered to the calling process.

brk.2

Yao Zhao / mtk

Clarify discussion of return value of sbrk().

mtk

DESCRIPTION: Add some sentences giving an overview of these interfaces.

Add note recommending use of malloc(3).

Change name of brk() argument to the simpler 'addr'.

Add "(void *)" cast to "-1" for error return of sbrk().

Removed some incorrect text about "brk(0)".

Note that SUSv2 specified the return value of sbrk().

Added a detail on the glibc brk() wrapper.

Remove discussions of old standards (C89 and POSIX.1-1990);

CONFORMING TO already discusses the situation with respect to more recent standards.

chmod.2

mtk

Clarify description of chmod() and fchmod().

Add further detail on S_ISUID, S_ISGID, and S_ISVTX permissions.

Reformat list of permissions

bits.

chown.2

mtk

Describe rules governing ownership of new files (bsdgroups versus sysvgroups, and the effect of the parent directory's set-group-ID permission bit).

chroot.2

Alain Portal

Clarify description a little.

s/changes the root directory/

changes the root directory of the calling process/

execve.2

mtk

Fix text that warns against use of NULL argv and envp.

Using a NULL envp does in fact seem to be portable (works on Solaris and FreeBSD), but the Linux semantics for a NULL argv certainly aren't consistent with other implementations.

See http://bugzilla.kernel.org/show_bug.cgi?id=8408.

getdents.2

mtk, after a note from George Spelvin

Document d_type field, present since kernel 2.6.4.

Other minor edits.

getitimer.2

mtk

Noted that POSIX.1 leaves interactions with alarm(), sleep(), and usleep() unspecified.

Linux 2.6.16 removed the

MAX_SEC_IN_JIFFIES ceiling on timer values.

Other minor changes.

io_cancel.2

io_destroy.2

io_getevents.2

io_setup.2

io_submit.2

mtk, after a note by Masatake YAMOTO and input from Jeff Moyer

Describe the unconventional error return provided by the wrapper function in libaio (and contrast with behavior if the system call is invoked via syscall(2)).

See <http://thread.gmane.org/gmane.linux.ltp/4445/>

Alain Portal / mtk

Re-order ERRORS and SEE ALSO entries to be alphabetical.

io_getevents.2

Alain Portal

Small wording fix.

io_submit.2

Jeff Moyer

s/AIO request blocks/AIO control blocks/

mknod.2

mtk

Note that EEXIST applies, even if the pathname is a (possibly dangling) symbolic link.

nanosleep.2

mtk, after a report from Stephane Chazelas

Remove crufty discussion of HZ, and replace with a pointer to time(7).

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=485636>

mtk, after some discussions with Bart Van Assche and Roman Zippel

NOTES: describe CLOCK_REALTIME versus CLOCK_NANOSLEEP

See also <http://thread.gmane.org/gmane.linux.kernel/696854/>

"nanosleep() uses CLOCK_MONOTONIC, should be CLOCK_REALTIME?"

mtk

Replace mentions of "process" by "thread".

NOTES: describe case where clock_nanosleep() can be preferable.

Some minor rewrites.

open.2

mtk, after a note from Christoph Hellwig

NOTES: Note that access mode flags are not single bits, and document the Linuxism "access mode 3".

See also <http://thread.gmane.org/gmane.linux.kernel/653123>.

readdir.2

mtk

Minor wording fixes.

recv.2

Alain Portal

Add comment to 'ee_pad' field in structure definition.

sched_setscheduler.2

mtk

Add pointer to discussion of RLIMIT_RTTIME in getrlimit.2.

mtk, after a note by Andrew Clayton

Rewrote and restructured various parts

of the page for greater

clarity.

mtk

Add more detail to the rules that are applied when an unprivileged process with a non-zero RLIMIT_RTPRIO limit changes policy and priority.

SEE ALSO: Add Documentation/scheduler/sched-rt-group.txt

sync_file_range.2

Pavel Machek

SYNC_FILE_RANGE_WRITE can block on writes greater than request queue size. For some background, see <http://thread.gmane.org/gmane.linux.kernel/687713/focus=688340>

syscalls.2

mtk

Added system call history back to version 1.2.
Fix typo on kernel version for pivot_root().

syslog.2

WANG Cong

Document ENOSYS error, which can occur if kernel was built without CONFIG_PRINTK.

utime.2

Nicolas François

Clarify description of 'times' array for utimes().

adjtime.3

mtk

The longstanding bug that if delta was NULL, olddelta didn't return the outstanding clock adjustment, is now fixed

(since glibc 2.8 + kernel 2.6.26).

http://sourceware.org/bugzilla/show_bug?id=2449

http://bugzilla.kernel.org/show_bug.cgi?id=6761

dprintf.3

mtk

Note that these functions are included in the next POSIX revision.
Remove editorial discussion about what the functions should have been named.

ftime.3

mtk

Rewrote various pieces, and added some details.

getaddrinfo.3

mtk

Improve description of 'hints' and 'res' arguments.
Add details on numeric strings that can be specified for 'node'.
Other fairly major restructurings and rewrites to improve logical structure and clarity of the page.
SEE ALSO: Add hostname(7).

gethostbyname.3

mtk

DESCRIPTION: Add reference to inet_addr(3) for dotted notation.

SEE ALSO: add inet(3).

mtk

Added BUGS section noting that gethostbyname() does not recognize hexadecimal components in dotted address strings; See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=482973>

getmntent.3

mtk, after Stuart Cunningham pointed out the typo

Remove statement that LSB deprecates the functions

"endmntent(), setmntent() [sic] and setmntent()".

This doesn't seem to be true (I can't find mention of it being deprecated in any of the LSB specs). Rather, LSB simply doesn't specify these functions. (LSB 1.3 had a spec of setmntent(), but not getmntent() or endmntent(), and noted that having a spec of setmntent() was of little use without also having a spec of getmntent().)

See also <https://lists.linux-foundation.org/pipermail/lsb-discuss/2006-October/003078.html>

getnameinfo.3

Tolga Dalman

Remove mention of sa_len field from example code.

That field is a BSDism not present on Linux.

mtk

Various minor changes.

inet.3

mtk / Stephane Chazelas

inet_aton() is *not* in POSIX.1.

Rewrote discussion

of why inet_addr() is disfavored.

SEE ALSO: Add getaddrinfo(3).

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=482979>.

mtk, after a note by Stephane Chazelas

Describe the various address forms supported by inet_aton().

mtk

Rewrite description of inet_network().

Clarify discussion of inet_lnaof(), inet_netof(), and inet_makeaddr().

Add discussion of Classful Addressing, noting that it is obsolete.

Added an EXAMPLE program.

mtk

Relocate discussion of i386 byte order to NOTES.

Note that inet_aton() returns an address in network byte order.

SEE ALSO: Add byteorder(3) and getnameinfo(3).

inet_ntop.3

mtk

Remove unneeded header files from SYNOPSIS.

SEE ALSO: Add inet(3) and getnameinfo(3).
Make NAME line more precise.
Move errors to an ERRORS section.
Add EXAMPLE section pointing to inet_pton(3).

inet_pton.3

mtk / Stephane Chazelas

Remove

statement that inet_pton() extends inet_ntoa();

that's not really true, since inet_pton() doesn't support
all of the string forms that are supported by inet_ntoa().

SEE ALSO: Add getaddrinfo(3).

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=482987>.

mtk

Describe IPv6 address formats.

Describe dotted decimal format in more detail.

Add an example program.

mtk

Remove unneeded header files from SYNOPSIS.

Make NAME line more precise.

Make description of return value more precise.

SEE ALSO: Add inet(3).

mkfifo.3

mtk

Note that EEXIST applies, even if the pathname is a
(possibly dangling) symbolic link.

mkstemp.3

mtk

Fix discussion of O_EXCL flag.

These functions may also fail for any of the errors described
in open(2).

Various other rewordings.

readdir.3

mtk

Document DT_LNK (symbolic link) for d_type field.

Reorder DT_ entries alphabetically.

remainder.3

mtk

Recommend against drem(), in favor of remainder().

scanf.3

mtk, after a note from Stephane Chazelas

Add an ERRORS section documenting at least some of the errors

that may occur for scanf().

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=487254>.

mtk, after a note from Stephane Chazelas; review by Stephane Chazelas

Document the GNU 'a' modifier for dynamically allocating strings.

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=487254>.

Document the GNU 'm' modifier for dynamically allocating strings.

strcat.3

Andreas Herrmann

s/strcat/strncat/ (a typo that changed the semantics in DESCRIPTION).

strerror.3

mtk, after a note from Daniele Giacomini

Modify SYNOPSIS to show prototypes of both versions of strerror_r(), and make other small clarifications of the description regarding the two versions.

random.4

George Spelvin (taking time out from his busy Broadway schedule), with some tweaks by Matt Mackall and mtk

Add a Usage subsection that recommends most users to use /dev/urandom, and emphasizes parsimonious usage of /dev/random.

locale.5

Petr Baudis <pasky@suse.cz>

LC_TIME: Describe first_weekday and first_workday.

proc.5

mtk

The various CPU time fields in /proc/stat and /proc/PID/stat return time in clock ticks (USER_HZ, cputime_to_clock_t(), sysconf(_SC_CLK_TCK)).

Updated, clarified and expanded the description several fields in /proc/[number]/stat.

mtk

Clarified and expanded the description of /proc/[number]/fd.

mtk

Updated and clarified the description of /proc/[number]/statm.

mtk

Updated and clarified the description of /proc/sys/fs/dentry-state.

mtk

Many formatting, wording, and grammar fixes.

man-pages.7

mtk

Enhanced description

of VERSIONS section.

mq_overview.7

mtk

Note that Linux does not currently support ACLs for POSIX message queues.

sem_overview.7

mtk

Note that Linux supports ACLs on POSIX named semaphores since 2.6.19.

time.7

mtk, with some suggestions from Bart Van Assche and Thomas Gleixner

Added some details about where jiffies come into play.

Added section on high-resolution timers.

Mentioned a few other time-related interfaces at various points in the page.

See <http://thread.gmane.org/gmane.linux.kernel/697378>.

unix.7

mtk, after a note by Samuel Thibault

Provide a clear description of the three types of address that can appear in the sockaddr_un structure: pathname, unnamed, and abstract.

===== Changes in man-pages-3.02 =====

Released: 2008-07-02, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Stephane Chazelas <stephane_chazelas@yahoo.fr>

WANG Cong <xiyou.wangcong@gmail.com>

Apologies if I missed anyone!

New and rewritten pages

clock_nanosleep.2

mtk

A description of the `clock_nanosleep()` system call, which was added in kernel 2.6.

getgrouplist.3

mtk

A near complete rewrite, including additional information and a new example program.

getutmp.3

mtk

Documents `getutmp(3)` and `getutmpx(3)`.

gnu_get_libc_version.3

mtk

Documents `gnu_get_libc_version(3)` and `gnu_get_libc_release(3)`.

sigwait.3

mtk

Documents `sigwait(3)`.

shm_overview.7

mtk

An overview of the POSIX shared memory API.

Newly documented interfaces in existing pages

updwtmp.3

mtk

Document `updwtmpx(3)`.

New links

getutmpx.3

mtk

Link to `getutmp.3`.

gnu_get_libc_release.3

mtk

Link to [gnu_get_libc_version.3](#)

[updwtmpx.3](#)

mtk

Link to [updwtmp.3](#)

[utmpxname.3](#)

mtk

Link to [getutent.3](#).

[utmpx.5](#)

mtk

Link to [utmp.5](#).

Global changes

Various pages

mtk

[s/user name/username/](#)

Various pages

mtk

[s/host name/hostname/](#)

Changes to individual pages

[fchmodat.2](#)

Alain Portal

SEE ALSO: [add_symlink.7](#). (3.01 changelog wrongly said this had been done.)

[io_setup.2](#)

Alain Portal

Remove superfluous text from RETURN VALUE.

[mmap.2](#)

mtk

SEE ALSO: [Add mmap\(2\)](#), [shm_overview\(7\)](#).

[shmget.2](#)

[shmop.2](#)

mtk

SEE ALSO: [add shm_overview\(7\)](#).

sigreturn.2

mtk

Added a bit more detail on what sigreturn() actually does.

signalfd.2

sigsuspend.2

mtk

SEE ALSO: Add

sigwait(3).

sigwaitinfo.2

mtk

Describe behavior when multiple threads are blocked in sigwaitinfo()/sigtimedwait().

SEE ALSO: Add sigwait(3).

dirfd.3

mtk

RETURN VALUE: describe return value on success.

Add an ERRORS section documenting POSIX.1-specified errors.

getaddrinfo.3

mtk, after a note by Stephane Chazelas

getaddrinfo() supports specifying IPv6 scope-IDs.

getlogin.3

mtk

ERRORS: add ENOTTY.

SEE ALSO: add utmp(5).

getutent.3

WANG Cong

utmpname() does return a value.

mtk

Add paragraph to start of DESCRIPTION recommending use of POSIX.1 "utmpx" functions.

CONFORMING TO: mention utmpxname().

Add an ERRORS section.

There are no utmpx equivalents of the _r reentrant functions.

Clarify discussion of return values.

Add pointer to definition of utmp structure in utmp(5).

Clarify discussion of utmpx file on other systems (versus Linux situation).

getutent.3

mtk

SEE ALSO: add getutmp(3)

inet_pton.3

Stephane Chazelas

Fix error in description of IPv6 presentation format:

s/x.x.x.x.x.x.x/x:x:x:x:x:x/x/.

setbuf.3

Reuben Thomas / mtk

Fix confused wording for return value of setvbuf().

Fixes <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=488104>.

mtk

Other minor rewordings.

shm_open.3

mtk

SEE ALSO: add shm_overview(7).

random.4

mtk, after a note by Alain Portal

Slight rewording to make life easier for non-native English speakers.

utmp.5

mtk

Add discussion of POSIX.1 utmpx specification.

Provide a little more detail on fields of utmp structure.

Added comments to macros for ut_type field.

Correct the description of the ut_id field.

mtk

Consolidate duplicated information about ut_tv and ut_session on biarch platforms.

mtk

Move some text from

CONFORMING TO to NOTES.

Removed some crufty text.

SEE ALSO: add login(3), logout(3), logwtmp(3).

UT_LINESIZE is 32 (not 12).

mtk

SEE ALSO: add getutmp(3)

man-pages.7

mtk

Enhanced the discussion of font conventions.

signal.7

mtk

Note that the delivery order of multiple pending standard signals is unspecified.

SEE ALSO: Add sigwait(3).

===== Changes in man-pages-3.03 =====

Released: 2008-07-08, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Paul Jackson <pj@sgi.com>

Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

New and rewritten pages

getcpu.2

Andi Kleen, with some text and edits

by mtk

Documents the getcpu(2) system call, introduced in Linux 2.6.19.

sched_getcpu.3

mtk

Documents sched_getcpu(3), a wrapper for getcpu(2), provided since glibc 2.6.

cpuset.7

Paul Jackson, with review and editing by mtk, and comments by

Hidetoshi Seto and Li Zefan

A description of the cpuset file system, the mechanism introduced kernel 2.6.12 for confining processes to designated processors and nodes. (Becomes the fourth largest page in man-pages!)

Newly documented interfaces in existing pages

readdir.3

mtk

Add documentation of readdir_r().

New links

updwtmpx.3

Alain Portal

Link to updwtmp.3 (3.02 changelog wrongly said this had been done).

readdir_r.3

mtk

Link to readdir.3.

Global changes

get_mempolicy.2

mbind.2

sched_setaffinity.2

set_mempolicy.2

mtk

SEE ALSO: Add getcpu(2).

accept.2

close.2

connect.2

dup.2

epoll_wait.2

fcntl.2

flock.2

futex.2

msgop.2

poll.2

read.2

recv.2

select.2

semop.2

send.2

sigwaitinfo.2

spu_run.2

wait.2

write.2

aio_suspend.3

mq_receive.3

mq_send.3

scanf.3
sem_wait.3
usleep.3
inotify.7
mtk

ERRORS: Added reference to signal(7) in discussion of EINTR.

Various pages

mtk
Wrapped very long source lines.

Changes to individual pages

accept.2
mtk
Small wording change.

io_getevents.2
mtk
ERRORS: Add EINTR error.

open.2
mtk
ERRORS: Add EINTR error.

sigaction.2
mtk
Note circumstances in which each SA_* flag is meaningful.
mtk
Describe POSIX specification, and Linux semantics for
SA_NOCLDWAIT when establishing a handler for SIGCHLD.
mtk
Add pointer under SA_RESTART to new text in signal(7)
describing system call restarting.
mtk
Other minor edits.

truncate.2
mtk
ERRORS: Added EINTR error.

A few minor rewordings.

wait.2
mtk
Remove statement that WUNTRACED and WCONTINUED only have effect

if SA_NOCLDSTOP has not been set for SIGCHLD. That's not true.

errno.3

mtk

Add a pointer to signal(7) for further explanation of EINTR.

getgrouplist.3

mtk

SEE ALSO: Add passwd(5).

readdir.3

mtk

Remove <sys/types.h> from SYNOPSIS; POSIX.1-2001 does not require it.

Some minor rewordings.

sleep.3

mtk

RETURN VALUE: explicitly mention interruption by signal handler.

SEE ALSO: add signal(7).

usleep.3

mtk

POSIX.1-2001 also only documents EINVAL.

group.5

mtk

SEE ALSO: Add getgrent(3), getgrnam(3).

passwd.5

mtk

SEE ALSO: Add getpwent(3), getpwnam(3).

proc.5

mtk

Add pointer to description of /proc/PID/cpuset in cpuset(7).

signal.7

mtk

Add a section describing system call restarting, and noting which system calls are affected

by SA_RESTART, and which

system calls are never restarted.

mtk

Describe the aberrant Linux behavior whereby a stop signal plus SIGCONT can interrupt some system calls, even if no signal handler has been established, and note the system calls that behave this way.

mtk

Note a few more architectures on which signal numbers are valid.

SEE ALSO: added a number of pages.

mtk

Update async-signal-safe function list for POSIX.1-2004 (which adds socketmark()).

===== Changes in man-pages-3.04 =====

Released: 2008-07-15, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Web site

licenses.html

mtk

A page describing the preferred licenses for new pages that are contributed to man-pages.

New and rewritten pages

utimensat.2

mtk

New page documenting the utimensat() system call, new in 2.6.22,
and futimens() library function.

end.3

mtk

Documents etext, edata, and end symbols.

Newly documented interfaces in existing pages

memchr.3

mtk

Add description of rawmemchr().

proc.5

mtk

Document /proc/config.gz (new in kernel 2.6).

mtk, based on text from Documentation/vm/sysctl.txt

Document /proc/sys/vm/oom_kill_allocating_task
(new in Linux 2.6.24).

Document /proc/sys/vm/oom_dump_tasks
(new in Linux 2.6.25).

Document /proc/sys/vm/panic_on_oom
(new in Linux 2.6.18).

New links

edata.3

etext.3

mtk

Links to end.3.

futimens.3

mtk

Link to new utimensat.2.

getdate_err.3

mtk

Link to getdate.3.

h_errno.3

mtk

Link to [gethostbyname.3](#).

[optarg.3](#)

[opterr.3](#)

[optind.3](#)

[optopt.3](#)

mtk

Links to [getopt.3](#).

[rawmemchr.3](#)

mtk

Link to [memchr.3](#).

[sys_errlist.3](#)

[sys_nerr.3](#)

mtk

Links to [perror.3](#).

Global changes

Various pages

mtk

s/parameter/argument/ when talking about the things given
to a function call, for consistency with majority usage.

Various pages

mtk

s/UNIX/Unix/, when not used as part of a trademark,
for consistency with majority usage in pages.

Various pages

mtk, after a note from Alain Portal

Put SEE ALSO entries

into alphabetical order.

Various pages

mtk

Remove period at end of SEE ALSO list.

Various pages

mtk, after a note by Alain Portal

Even when the CONFORMING TO section is just a list of standards,
they should be terminated by a period.

[getpriority.2](#)

[MB_LEN_MAX.3](#)

MB_CUR_MAX.3

fwide.3

mblen.3

rtime.3

st.4

proc.5

bootparam.7

man-pages.7

utf-8.7

tcp.5

mtk / Alain Portal

Small wording fixes -- express <=, <, >=, > in words when in running text.

sched_setparam.2

sched_setscheduler.2

getgrent_r.3

hash.3

mtk

Minor rewording w.r.t. use of the term "parameter".

Typographical or grammatical errors have been corrected in several other places. (Many, many thanks to Alain Portal!)

Changes to individual pages

capget.2

Andrew Morgan

Update in line with addition of file capabilities and 64-bit capability sets in kernel 2.6.2[45].

clock_nanosleep.2

mtk

Add "Link with -lrt"
to SYNOPSIS.

getrusage.2

Sripathi Kodi

Document RUSAGE_THREAD, new in 2.6.26.

mtk

Improve description of RUSAGE_CHILDREN.
Add pointer to /proc/PID/stat in proc(5).
Other minor clean-ups.

ioprio_set.2

Nikanth Karthikesan

Since Linux 2.6.25, CAP_SYS_ADMIN is longer required to set a low priority (IOPRIO_CLASS_IDLE).

mount.2

mtk

Since Linux 2.6.26, MS_RDONLY honors bind mounts.

openat.2

mtk

SEE ALSO: add utimensat(3).

prctl.2

Serge Halryn, with some edits/input from mtk

Document PR_CAPBSET_READ and PR_CAPBSET_DROP.

Erik Bosman

Document PR_GET_TSC and PR_SET_TSC.

mtk, reviewed by Andrea Arcangeli

Document PR_SET_SECCOMP and PR_GET_SECCOMP.

mtk

PR_SET_KEEPCAPS and PR_GET_KEEPCAPS operate on a per-thread setting, not a per-process setting.

mtk

Clarify fork(2) details for PR_SET_PDEATHSIG.

mtk

Add description of PR_SET_SECUREBITS and PR_GET_SECUREBITS, as well as pointer to further info in capabilities(7).

mtk

PR_GET_ENDIAN returns endianness info in location pointed to by arg2 (not as function result, as was implied by previous text).

mtk

Expand description of PR_SET_NAME and PR_GET_NAME.

mtk

RETURN VALUE: bring up to date for various options.

mtk

Various improvements in ERRORS.

mtk

Note that PR_SET_TIMING setting of PR_TIMING_TIMESTAMP is not currently implemented.

mtk

Minor changes:

- * Clarify wording for PR_GET_UNALIGN, PR_GET_FPEMU, and PR_GET_FPEXC.
- * Some reformatting of kernel version information.
- * Reorder PR_GET_ENDIAN and PR_SET_ENDIAN entries.

readlinkat.2

John Brooks / mtk

Fix and reword erroneous RETURN VALUE text.

recv.2

mtk

Noted which flags appeared in Linux 2.2.

sched_setaffinity.2

mtk, after a Fedora downstream patch

Update type used for cpusetsize argument in SYNOPSIS.

select.2

Andreas Mohr / mtk

Clarify "zero timeout" case.

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=490868>.

send.2

mtk

Noted which flags appeared in Linux 2.2.

sigaction.2

mtk

Document si_overnrun and si_tid fields of siginfo structure.

Add some text for si_trapno field.

The si_errno field is *generally* unused.

mtk

Put descriptions of SA_* constants in alphabetical order.

signal.2

mtk

Rewrote and expanded portability discussion.

NOTES: Show the raw prototype of signal() (without use of sighandler_t).

signalfd.2

mtk

Modify description of ssi_trapno field.

swapon.2

mtk

Fix two version number typos for MAX_SWAPFILES discussion:

s/2.6.10/2.4.10/

utime.2

mtk

SEE ALSO: add utimensat(2), futimens(3).

dl_iterate_phdr.3

Alain Portal

SEE ALSO: Add elf(5).

crypt.3

mtk, after a Fedora downstream patch

Describe additional encryption algorithms.

See also: https://bugzilla.redhat.com/show_bug.cgi?id=428280.

errno.3

mtk

Small rewrites in DESCRIPTION.

exec.3

mtk, after a note from Alain Portal

Small rewording.

exp10.3

Alain Portal

SEE ALSO: Add log10(3).

exp2.3

Alain Portal

Add C99 to CONFORMING TO.

fgetgrent.3

Alain Portal

Add references to group(5).

mtk

Minor rewordings.

SEE ALSO: add fopen(3).

fgetpwent.3

Alain Portal

Add reference to passwd(5).

mtk

Minor rewordings.

SEE ALSO: add fopen(3).

frexp.3

Alain Portal

Add C99 to CONFORMING TO.

futimes.3

mtk

SEE ALSO: remove futimesat(2); add utimensat(2).

getopt.3

mtk

Add details on initial value of `optind`, and note that it can be reset (to 1) to restart scanning of an argument vector.

Add a NOTES section describing the

`glibc`-specific behavior

when `optind` is reset to 0 (rather than 1).

See http://groups.google.com/group/comp.unix.programmer/browse_thread/thread/be0d0b7a07a165fb

mtk

Note `glibc` extensions under CONFORMING TO.

`getspnam.3`

mtk

Improve comments on struct `spwd`.

`getpw.3`

Alain Portal

RETURN VALUE: note that `errno` is set on error.

mtk

Add `EINVAL` error.

`insque.3`

mtk / Alain Portal

Minor rewordings.

`log.3`

Alain Portal

Remove unnecessary sentence in ERRORS.

`log10.3`

mtk

SEE ALSO: Add `exp10(3)`.

`offsetof.3`

Alain Portal

Small wording improvement.

`pow.3`

Alain Portal

Remove unnecessary sentence in ERRORS.

`printf.3`

mtk / Alain Portal

Many small formatting fixes.

`proc.5`

mtk

Remove redundant summary list of files in description of `/proc/sys/kernel`.

Make kernel version for /proc/sys/kernel/panic_on_oops more precise.
Make kernel
version for /proc/sys/kernel/pid_max more precise.
Add Documentation/sysctl/vm.txt to SEE ALSO.
Other minor edits.

profil.3

mtk / Alain Portal
Small wording improvement.

rtime.3

mtk, after a note by Alain Portal
Clarify meaning of midnight on 1 Jan 1900/1970.
mtk
Remove netdate(1) and rdate(1) from SEE ALSO, since these pages
don't seem to exist on Linux systems.

scanf.3

Vincent Lefevre / mtk
Clarify treatment of initial white space by %% conversion
specification.
as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=435648>.
mtk
Many small formatting fixes.

stdin.3

Alain Portal
Rename CONSIDERATIONS section to NOTES, and relocate
to appropriate place on page.

tmpfile.3

mtk, after a note by Alain Portal
Prepend "POSIX.1-2001 specifies that: " to the sentence stating
that tmpfile() may write to stdout. (AFAICS, glibc's tmpfile()
does
not do this.)

ttyname.3

Alain Portal
Remove unnecessary sentence in ERRORS.

wcsdup.3

Alain Portal
Make wording more precise: the memory allocated by wcsdup(3)
should be freed with free(3).

wordexp.3

Alain Portal / mtk

Move example into proper EXAMPLE section.

tty_ioctl.4

mtk / Petr Gajdos

The features in the "Get and Set Window Size" subsection require the inclusion of <sys/ioctl.h>.

capabilities.7

Serge Hallyn, plus a bit of work by mtk

Document file capabilities, per-process capability bounding set, changed semantics for CAP_SETPCAP, and other changes in 2.6.2[45]. Add CAP_MAC_ADMIN, CAP_MAC_OVERRIDE, CAP_SETFCAP. Various smaller fixes.

mtk, plus review by Serge Hallyn and Andrew Morgan

Add text detailing how CAP_SETPCAP (theoretically) permits -- on pre-2.6.25 kernels, and 2.6.25 and later kernels with file capabilities disabled -- a thread to change

the capability sets

of another thread.

Add section describing rules for programmatically adjusting thread capability sets.

Add some words describing purpose of inheritable set.

Note existence of CONFIG_SECURITY_CAPABILITIES config option.

Describe rationale for capability bounding set.

Document securebits flags (new in 2.6.26).

Remove obsolete BUGS section.

SEE ALSO: Add getcap(8), setcap(8), and various libcap pages.

mtk

Add text noting that if we set the effective flag for one file capability, then we must also set the effective flag for all other capabilities where the permitted or inheritable bit is set.

mtk

Since Linux 2.6.25, CAP_SYS_ADMIN is no longer required for ioprio_set() to set IOPRIO_CLASS_IDLE class.

mtk

Reword discussion of CAP_LINUX_IMMUTABLE to be file-system neutral.

man-pages.7

mtk

A list of standards in the CONFORMING TO list should be

terminated by a period.

The list of pages in a SEE ALSO list should not be terminated by a period.

tcp.7

mtk

Correct a detail for sysctl_tcp_adv_win_scale.

Formatting fixes.

==== Changes in man-pages-3.05 =====

Released: 2008-07-23, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

matherr.3

mtk, with review by Andries Brouwer

A description of the SVID-specified mechanism for reporting math exceptions.

See <http://thread.gmane.org/gmane.linux.man/266>.

math_error.7

mtk, with review and suggested input from Andries Brouwer

A description of how math functions report errors.

See <http://thread.gmane.org/gmane.linux.man/249>.

Global changes

Various pages

mtk

s/floating point/floating-point/ when used attributively.

Various pages

mtk

For consistency with majority usage:

s/plus infinity/positive infinity/

s/minus infinity/negative infinity/

Typographical or grammatical errors have been corrected in several other places.

Changes to individual pages

brk.2

mtk

SEE ALSO: add end(3).

open.2

Brian M. Carlson / mtk

Remove ambiguity in description of support for O_EXCL on NFS.

As per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=491791>.

prctl.2

mtk

Place options in some semblance of alphabetical order.

(No content or formatting

changes were made.)

cerf.3

mtk

Bump version number: these functions are still missing in glibc 2.8.

fenv.3

mtk

SEE ALSO: Add math_error(7).

INFINITY.3

mtk

SEE ALSO: Add math_error(7).

nan.3

mtk

Remove unneeded "Compile with" piece in SYNOPSIS.

SEE ALSO: Add math_error(7).

rpc.3

mtk / Franck Jousseume

Fix errors introduced into a few prototypes when converting

function declarations to use modern C prototypes in man-pages-2.75.

ipv6.7

mtk, after a report from Uli Schlacter
Document the IPV6_V6ONLY flag.

==== Changes in man-pages-3.06 =====

Released: 2008-08-05, Konolfingen

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

erfc.3

mtk
Created after removing the erfc() material from erf.3.
Documents the complementary error function.

y0.3

mtk
Created after removing the y*() material from j0.3.
Documents the Bessel functions of the second kind.
Included ERRORS section; noted that an exception is not
raised on underflow, see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6806;
and errno is not set on overflow, see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6808;
Included BUGS section noting that errno is incorrectly
set for pole error; see also

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6807.

scalbln.3

mtk

Created after removing the scalbln*() and scalbn*() material from scalb.3. Documents

scalbln() and scalbn() functions.

Included ERRORS section; noted that errno is not set; see also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6803.

New and changed links

erfcf.3

erfcl.3

mtk

Changed these links to point to new erfc.3 page.

scalblnf.3

scalblnl.3

scalbn.3

scalbnf.3

scalbnl.3

mtk

Changed these links to point to new scalbln.3 page.

y0f.3

y0l.3

y1.3

y1f.3

y1l.3

yn.3

ynf.3

ynl.3

mtk

Changed these links to point to new y0.3 page.

Global changes

Various pages

mtk

s/floating point/floating-point/ when used attributively.

Typographical or grammatical errors have been corrected in several other places.

Changes to individual pages

crypt.3

mtk

Tweak discuss text describing support for Blowfish.

ctime.3

mtk / Gernot Tenchio

Added some words to make clear that the string returned by
ctime() and asctime()

is null-terminated.

math_error.7

Sam Varshavchik

Reverse order of SYNOPSIS and NAME sections.

mtk

NOTES: Summarize the state of glibc support for exceptions
and errno for error reporting.

Changes to individual pages (math functions)

Almost all of the changes in this release relate to math man pages.

Very many changes were made to the math pages, including:

- * Fixed feature test macros (FTMs). Often, the FTM requirements for the "float" and "long double" versions of a math function are different from the requirements for the "double" version. Each math page now shows the correct FTM requirements for all three versions of the function(s) it describes. This may have required either a change to the existing FTM text (if the requirements for the "double" function were already described), or the addition of an FTM description to a SYNOPSIS where one was not previously present (typically because the "double" version of the function does not require any FTMs to be defined).
- * CONFORMING TO: in many cases, POSIX.1-2001 was not mentioned. Where a function is specified in POSIX.1-2001, this is now noted. Also, statements about what other standards a function conforms to were generally clarified. (The wording about which functions conformed to C99 was previously often done as an add on sentence; now it is made part of the first sentence of the CONFORMING TO section, along with POSIX.1-2001.)
- * RETURN VALUE: in many cases, pages lacked descriptions of the return

value when the function arguments are special values such as +0, -0, NaN (not-a-number), +infinity, -infinity, etc. This has been fixed. I carried out tests on glibc 2.8 to ensure that all of these functions match the RETURN VALUE descriptions (and the POSIX.1-2001 requirements).

* ERRORS: many pages lacked a clear (or indeed any) description of how errno is set on error and what exception is raised for each error.

This has been fixed. The ERRORS sections are now generally headed up as per the POSIX.1 way of doing things, describing Pole / Range / Domain errors, as applicable.

I carried out tests on glibc 2.8 to ensure that all of these functions match the ERRORS descriptions. Deviations from POSIX.1-2001 requirements have been filed as glibc bug reports, and noted in the man pages. (The pages now describe the situation for ERRORS as at glibc 2.8; I may eventually try and extend the text with descriptions of changes in older versions of glibc.)

NOTE: one point that has not been covered in any page is the circumstances that generate inexact (FE_INEXACT) exceptions. (The details for these exceptions are not specified in POSIX.1-2001, and I haven't gone looking for the standards that describe the details.)

acos.3

mtk

SYNOPSIS: Added feature test macro requirements.

RETURN VALUE: Added details for special argument cases.

Rewrote ERRORS section.

Updated CONFORMING TO.

acosh.3

mtk

SYNOPSIS: Fixed feature test macro requirements.

Added RETURN VALUE section.

Rewrote ERRORS section.

Updated CONFORMING TO.

asin.3

mtk

SYNOPSIS: Added feature test macro requirements.

RETURN VALUE: Added details for special argument cases.

Rewrote ERRORS section.

Updated CONFORMING TO.

asinh.3

mtk

SYNOPSIS: Added feature test macro requirements.

DESCRIPTION: Some rewording.

RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
Updated CONFORMING TO.

atan.3

mtk

SYNOPSIS: Added feature test macro requirements.
DESCRIPTION: Some rewording.
RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
Updated CONFORMING TO.

atan2.3

mtk

SYNOPSIS: Added feature test macro requirements.
DESCRIPTION:
Some rewording.
RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
Updated CONFORMING TO.

atanh.3

mtk

SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.
Added BUGS section noting that pole error sets errno to EDOM,
when it should be ERANGE instead; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6759.

cbrt.3

mtk

SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Added (null) ERRORS section.
Updated CONFORMING TO.

ceil.3

mtk

SYNOPSIS: Added feature test macro requirements.
DESCRIPTION: Enhanced.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section.
Updated CONFORMING TO.
NOTES: Added some details.

copysign.3

mtk

Added RETURN

VALUE section.

Updated CONFORMING TO.

cos.3

mtk

SYNOPSIS: Added feature test macro requirements.

Rewrote RETURN VALUE section.

Added ERRORS section; noted errno is not set:

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6780.

Updated CONFORMING TO.

cosh.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section.

Updated CONFORMING TO.

erf.3

mtk

Removed the erfc() material (there is now a new erfc page).

Reason: the functions are logically separate; also their return values differ, and it would have been confusing to document them on the same page.

SYNOPSIS: Fixed feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6785.

Updated CONFORMING TO.

exp.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6786.

Updated CONFORMING TO.

exp10.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set for underflow;

see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6787.

exp2.3

mtk

Added RETURN VALUE and ERRORS sections.

Updated CONFORMING TO.

expm1.3

mtk

SYNOPSIS: Fixed feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set for overflow;

see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6788.

Updated CONFORMING TO.

Added BUGS section, describing bogus underflow exception for -large,

see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6778;

and describing bogus invalid exception for certain +large,

see http://sources.redhat.com/bugzilla/show_bug.cgi?id=6814.

fabs.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Updated CONFORMING TO.

fdim.3

mtk

SYNOPSIS: Added feature test macro requirements.

DESCRIPTION: Some rewording.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6796.

Updated CONFORMING TO.

fenv.3

mtk

Make style of writing exception names consistent with other pages and POSIX.1-2001.

Updated CONFORMING TO.

finite.3

mtk

SYNOPSIS: Fixed feature test macro requirements.

floor.3

mtk

SYNOPSIS: Added feature test macro requirements.

DESCRIPTION: Enhanced.

RETURN VALUE: Added details for special argument cases.

Rewrote ERRORS section.

Updated CONFORMING TO.

fma.3

mtk

SYNOPSIS: Added feature test macro requirements.

DESCRIPTION: Some rewording.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6801.

Updated CONFORMING TO.

fmax.3

fmin.3

mtk

NAME: Make description clearer

SYNOPSIS: Added feature test macro requirements.

SYNOPSIS: Remove unneeded "Compile with" piece.

CONFORMING TO: Added POSIX.1-2001.

Added RETURN VALUE and ERRORS sections.

fmod.3

mtk

SYNOPSIS: Added feature test macro requirements.

RETURN VALUE: Added details for special argument cases.

Rewrote ERRORS section; noted that errno is not always set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783.

Updated CONFORMING TO.

fpclassify.3

mtk

Minor wording changes.

CONFORMING TO: Added POSIX.1-2001.

SEE ALSO: Add signbit(3).

frexp.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added details to RETURN VALUE section.

Added (null) ERRORS section.

CONFORMING TO: Added POSIX.1-2001.

gamma.3

mtk

SYNOPSIS: Fixed feature test macro requirements.

Added (null) RETURN VALUE section referring to tgamma(3).

Added (null) ERRORS section referring to tgamma(3).

CONFORMING TO: Rewrote.

hypot.3

mtk

SYNOPSIS: Fixed feature test macro requirements.

DESCRIPTION: note that calculation is done without causing undue overflow or underflow.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not always set; see also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6795.

Updated CONFORMING TO.

ilogb.3

mtk

SYNOPSIS: Added feature test macro requirements.

Rewrote RETURN VALUE

section.

Rewrote ERRORS section; noted that errno is not set, and in some cases an exception is not raised; see also

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6794.

CONFORMING TO: Added POSIX.1-2001.

isgreater.3

mtk

NAME: Make description clearer

Improve the description of isunordered().

Added RETURN VALUE and ERRORS sections.

Formatting fixes.

A few wording improvements.

j0.3

mtk

Removed material for the y^* () functions to a separate y0.3 page.

Reason: the return values and errors/exceptions differ, and it would have been confusing to document them on the same page.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see

also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6805.

ldexp.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE and ERRORS sections.

Updated CONFORMING

TO.

lgamma.3

mtk

Note that these functions are deprecated.

SYNOPSIS: Fixed feature test macro requirements.

Added RETURN VALUE and ERRORS sections referring to lgamma(3).

Added BUGS section noting that pole error sets errno to EDOM,
when it should be ERANGE instead; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6777.

log.3

mtk

SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

log10.3

mtk

SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

log1p.3

mtk

SYNOPSIS: Fixed feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6792.
Updated CONFORMING
TO.

log2.3

mtk

Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.

logb.3

mtk

SYNOPSIS: Fixed feature test macro requirements.
DESCRIPTION: added a little detail; some rewordings.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6793.
CONFORMING TO: Added POSIX.1-2001.

lrint.3

mtk

DESCRIPTION: some rewording.
RETURN VALUE: Added details for special argument cases.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6798.

CONFORMING TO: Added POSIX.1-2001.

lround.3

mtk

RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6797.
CONFORMING TO: Added POSIX.1-2001.

modf.3

mtk

SYNOPSIS: Added feature test macro requirements.
RETURN VALUE: Added details for special argument cases.
Added (null) ERRORS section.
CONFORMING TO: Added POSIX.1-2001.

nan.3

mtk

Small wording changes.
CONFORMING TO: Added POSIX.1-2001.

nextafter.3

mtk

SYNOPSIS: Fixed feature test macro requirements.
RETURN VALUE: Added details for special argument cases.
Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6799.
CONFORMING TO: Added POSIX.1-2001.

pow.3

mtk

SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Rewrote ERRORS section.
Updated CONFORMING TO.
Added BUGS section noting that pole error sets errno to EDOM,
when it should be ERANGE instead; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6776.

remainder.3

mtk

SYNOPSIS: Fixed feature test macro requirements.
DESCRIPTION: added some details.
RETURN VALUE: Added details for special argument cases.
Rewrote ERRORS section; noted that errno is not always set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783.
Updated CONFORMING TO.
Added BUGS section noting that remainder(nan(""), 0)

wrongly causes a domain error; see
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6779

remquo.3

mtk

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6801.

Updated CONFORMING TO.

fmax.3

fmin.3

mtk

NAME: Make description clearer

SYNOPSIS: Added feature test macro requirements.

SYNOPSIS: Remove unneeded "Compile with" piece.

CONFORMING TO: Added POSIX.1-2001.

Added RETURN VALUE and ERRORS sections.

fmod.3

mtk

SYNOPSIS: Added feature test macro requirements.

RETURN VALUE: Added details for special argument cases.

Rewrote ERRORS section; noted that errno is not always set; see
also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783.

Updated CONFORMING TO.

fpclassify.3

CONFORMING TO: Added POSIX.1-2001.

rint.3

mtk

SYNOPSIS: Fixed feature test macro requirements.

DESCRIPTION: added some details.

RETURN VALUE: Added details for special argument cases.

ERRORS: no errors can occur (previous text was misleading).

CONFORMING TO: Added POSIX.1-2001.

NOTES: point out that lrint() may be preferred in some cases.

round.3

mtk

DESCRIPTION: added some details.

RETURN VALUE: Added details for special argument cases.

ERRORS: no errors can occur (previous text was misleading).

CONFORMING TO: Added POSIX.1-2001.

NOTES: point out that lround() may be preferred in some cases.

scalb.3

mtk

Removed the scalbn() and scalbln() material to a separate scalbln.3 page. Reason: scalb() is obsolete; also the exception/error conditions differ somewhat, so that it would have been confusing to document them on the same page.

SYNOPSIS: Fixed feature test macro requirements.

DESCRIPTION: some rewrites and added details.

Added RETURN VALUE section.

Added ERRORS section; noted that errno is not set; see also http://sources.redhat.com/bugzilla/show_bug.cgi?id=6803 and http://sources.redhat.com/bugzilla/show_bug.cgi?id=6804.

CONFORMING TO: Rewrote.

signbit.3

mtk

SYNOPSIS: Added feature test macro requirements.

SYNOPSIS: Remove unneeded "Compile with" piece.

Added RETURN VALUE section.

Added (null) ERRORS section.

CONFORMING TO: Added POSIX.1-2001.

sin.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section; noted errno is not set:

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6781.

Updated CONFORMING TO.

sincos.3

mtk

DESCRIPTION: Added details for special argument cases.

Added (null) RETURN VALUE section.

Added ERRORS section.

sinh.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Added ERRORS section.

Updated CONFORMING TO.

sqrt.3

mtk

SYNOPSIS: Added feature test macro requirements.

Added RETURN VALUE section.

Rewrote ERRORS section.
Updated CONFORMING TO.

tan.3

mtk

SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added ERRORS section.
Added ERRORS section; noted errno is not set:
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6782.

Updated CONFORMING TO.

tanh.3

mtk

SYNOPSIS: Added feature test macro requirements.
Added RETURN VALUE section.
Added (null) ERRORS section.
Updated CONFORMING TO.

tgamma.3

mtk

Added RETURN VALUE section.
Rewrote ERRORS section; noted that errno is not set /
incorrectly set in some cases; see also
http://sources.redhat.com/bugzilla/show_bug.cgi?id=6809
and http://sources.redhat.com/bugzilla/show_bug.cgi?id=6810.
CONFORMING TO: Added POSIX.1-2001.
Added NOTES section to hold text explaining origin of tgamma().

trunc.3

mtk

RETURN VALUE: small rewording.
CONFORMING TO: Added POSIX.1-2001.
Added NOTES section explaining that result may be too large
to store in an integer type.

==== Changes in man-pages-3.07 =====

Released: 2008-08-12, Konolfingen

Contributors

The following people contributed notes, ideas, or

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been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

move_pages.2

Christoph Lameter, various edits and improvements by mtk

Documentation of the move_pages() system call.

This page was formerly

part of the numactl package, but really

belongs in man-pages (since it describes a kernel interface).

clock_getcpuclockid.3

mtk

New page documenting the clock_getcpuclockid() library function,
available since glibc 2.2.

udplite.7

Gerrit Renker

Document the Linux implementation of the UDP-Lite protocol,
new in Linux 2.6.20.

Newly documented interfaces in existing pages

proc.5

Christoph Lameter, minor edits and improvements by mtk

Documentation of the /proc/PID/numa_maps file.

This material was formerly the numa_maps.5 page in the numactl package, but really belongs in man-pages (since it describes a kernel interface).

Global changes

nanosleep.2

inet_ntop.3

inet_pton.3

scanf.3

initrd.4

mtk

Fix mis-ordered (.SH) sections.

connect.2

socket.2

rtnetlink.3

arp.7

ddp.7

ip.7

ipv6.7

netlink.7

packet.7

raw.7

rtnetlink.7

socket.7

tcp.7

udp.7

unix.7

x25.7

mtk

s/PF_/AF_/ for socket family constants. Reasons: the AF_ and PF_ constants have always had the same values; there never has been a protocol family that had more than one address family, and POSIX.1-2001 only specifies the AF_* constants.

Typographical or grammatical errors have been corrected in several other places.

Changes to individual pages

execve.2

mtk

The floating-point environment is reset to the default during an `execve()`.

get_mempolicy.2

Lee Schermerhorn

Misc cleanup of `get_mempolicy(2)`:

+ mention that any mode flags will be saved with `mode`.

I don't bother to document mode flags here because we already have a pointer to `set_mempolicy(2)` for more info on memory policy. mode flags are discussed there.

+ remove some old, obsolete [IMO] NOTES and 'roff comments.

Lee Schermerhorn

Update the

`get_mempolicy(2)` man page to add in the description of the `MPOL_F_MEMS_ALLOWED` flag, added in 2.6.23.

mtk

Document additional `EINVAL` error that occurs is `MPOL_F_MEMS_ALLOWED` is specified with either `MPOL_F_ADDR` or `MPOL_F_NODE`.

getitimer.2

mtk

CONFORMING TO: POSIX.1-2008 marks `getitimer()` and `setitimer()` obsolete.

mbind.2

Lee Schermerhorn

Fix error conditions, now that the kernel silently ignores nodes outside the task's cpuset, as long as one valid node remains.

Now that `cpuset` man page exists, we can refer to it. Remove stale comment regarding lack thereof.

Lee Schermerhorn

Add brief discussion of mode flags.

Lee Schermerhorn

Attempt to clarify discussion of `MPOL_DEFAULT`.

mtk

Fix URI reference for `libnuma`.

mprotect.2

mtk / Maxin John

Remove `EFAULT` from errors. Under `ENOMEM` error, note that `EFAULT` was the error produced in some cases

for kernels before

2.4.19.

msgctl.2

mtk, after a note from Filippo Santovito

In the ipc_perm structure definition, some fields were incorrectly named: s/key/__key/ and s/seq/__seq/.

set_mempolicy.2

Lee Schermerhorn

Fix up the error return for nodemask containing nodes disallowed by the process' current cpuset. Disallowed nodes are now silently ignored, as long as the nodemask contains at least one node that is on-line, allowed by the process' cpuset and has memory.

Now that we have a cpuset man page, we can refer to cpusets directly in the man page text.

Lee Schermerhorn

Another attempt to rationalize description of MPOL_DEFAULT.

Since ~2.6.25, the system default memory policy is "local allocation".

MPOL_DEFAULT itself is a request to remove any non-default policy and "fall back" to the surrounding context. Try to say that without delving into implementation

details.

Lee Schermerhorn

Add discussion of mempolicy mode flags to set_mempolicy(2).

This adds another reason for EINVAL.

setpgid.2

mtk

CONFORMING TO: POSIX.1-2008 marks setpgrp() obsolete.

semctl.2

mtk, after a note from Filippo Santovito

In the ipc_perm structure definition, some fields were incorrectly named: s/key/__key/ and s/seq/__seq/.

shmctl.2

Filippo Santovito / mtk

In the ipc_perm structure definition, some fields were incorrectly named: s/key/__key/ and s/seq/__seq/.

utime.2

mtk

CONFORMING TO: POSIX.1-2008 marks utime() obsolete.

CONFORMING TO: POSIX.1-2008 removes the POSIX.1-2001 LEGACY marking of utimes(), so mention of this point has been

removed from the page.

vfork.2

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of vfork().

atan2.3

Fabian Kreutz

SEE ALSO Add carg(3).

bcmp.3

mtk

CONFORMING TO: POSIX.1-2008

removes the specification of bcmp().

bsd_signal.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of
bsd_signal().

bzero.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of bzero().

cexp2.3

mtk

AVAILABILITY: These functions are still not in glibc
as at version 2.8.

clock_getres.3

mtk

SEE ALSO: Add clock_getcpuclockid(3).

clog2.3

mtk

AVAILABILITY: These functions are still not in glibc
as at version 2.8.

ctime.3

mtk

POSIX.1-2008 marks asctime(), asctime_r(), ctime(), and ctime_r()
as obsolete.

dprintf.3

mtk

CONFORMING TO: These functions are nowadays in POSIX.1-2008.

ecvt.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specifications of
ecvt() and fcvt().

ftime.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of ftime().

ftw.3

mtk

CONFORMING TO: POSIX.1-2008 marks ftw() as obsolete.

gcvt.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of gcvt().

getcwd.3

Reuben Thomas / mtk

Clarify description of getcwd() for buf==NULL case;

CONFORMING TO: According to POSIX.1, the behavior of getcwd()
is unspecified for the buf==NULL case.

mtk

Add an introductory paragraph giving an overview of what these
functions do.

Fix error in description of getwd(): it does not truncate the
pathname; rather, it gives an error if the pathname exceeds
PATH_MAX bytes.

Rewrote RETURN VALUE section.

Add EINVAL ENAMETOOLONG errors for getwd().

Various other clarifications and wording fixes.

CONFORMING TO: POSIX.1-2001 does not define any errors for
getwd().

CONFORMING TO: POSIX.1-2008 removes the specification of getwd().

gethostbyname.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specifications of
gethostbyname(), gethostbyaddr(), and

h_errno.

gets.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of gets().

iconv.3

iconv_close.3

iconv_open.3

mtk

VERSIONS: These functions are available in glibc since version 2.1.

index.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specifications of index() and rindex().

isalpha.3

mtk

CONFORMING TO: POSIX.1-2008 marks isalpha() as obsolete.

makecontext.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specifications of makecontext() and swapcontext().

memchr.3

mtk

VERSIONS: memrchr() since glibc 2.2; rawmemchr() since glibc 2.1.

mempcpy.3

mtk

VERSIONS: mempcpy() since glibc 2.1.

mktemp.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of mktemp().

opendir.3

mtk

CONFORMING TO: POSIX.1-2008 specifies fdopendir().

rand.3

mtk

CONFORMING TO: POSIX.1-2008 marks rand_r() as obsolete.

siginterrupt.3

mtk

CONFORMING TO: POSIX.1-2008

marks siginterrupt() as obsolete.

sigset.3

mtk

CONFORMING TO: POSIX.1-2008 marks sighold(), sigignore(), sigpause(), sigrelse(), and sigset() as obsolete.

strchr.3

mtk

VERSIONS: strchrnul() since glibc 2.1.1.

tempnam.3

mtk

CONFORMING TO: POSIX.1-2008 marks tempnam() as obsolete.

tmpnam.3

mtk

CONFORMING TO: POSIX.1-2008 marks tmpnam() as obsolete.

toascii.3

mtk

CONFORMING TO: POSIX.1-2008 marks toascii() as obsolete.

ualarm.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of ualarm().

ulimit.3

mtk

CONFORMING TO: POSIX.1-2008 marks ulimit() as obsolete.

usleep.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of usleep().

standards.7

mtk

Updated details for POSIX.1-2008, and noted that if
POSIX.1-2001 is listed in the CONFORMING TO section of a man
page, then the reader can assume that the interface is also
specified
in POSIX.1-2008, unless otherwise noted.

time.7

mtk

SEE ALSO: Add clock_getcpuclockid(3).

udp.7

mtk

SEE ALSO: add udplite(7).

Changes to individual pages (math functions)

Various changes here following on from the big update to the
math pages in the previous release. Test results going back

glibc 2.3.2 (so far) allowed updates to various pages to note changes in historical behavior for error reporting by math functions. Thanks to the following people for providing me with test results on various distributions and glibc versions: Alain Portal, Andries Brouwer, Fabian Kreutz, Heikki Orsila, Khalil GHORBAL, Pavel Heimlich, Reuben Thomas, Samuel Thibault, Soh Kam Yung, and Stephane Chazelas

cabs.3
cacos.3
cacosh.3
carg.3
casin.3
casinh.3
catan.3
catanh.3
ccos.3
ccosh.3
cexp.3
cimag.3
clog.3
clog10.3
conj.3
cpow.3
cproj.3
creal.3
csin.3
csinh.3
csqrt.3
ctan.3
ctanh.3
exp10.3
exp2.3
fdim.3
fenv.3
fma.3
fmax.3
fmin.3
log2.3
lrint.3
lround.3
nan.3
pow10.3
remquo.3
round.3
scalbln.3
sincos.3
tgamma.3

trunc.3

mtk

Added VERSIONS section noting that these functions first appeared in glibc in version 2.1.

cosh.3

mtk

BUGS: In glibc 2.3.4 and earlier, an FE_OVERFLOW exception is not raised when an overflow occurs.

fenv.3

mtk / Fabian Kreuz

Provide more detail in the description of rounding modes.

Add text describing FLT_ROUNDS (formerly in fma.3).

Add BUGS section pointing out the FLT_ROUNDS does not reflect changes by fesetround().

fma.3

mtk

Remove text about FLT_ROUNDS, replacing with a cross-reference to fenv(3).

fpclassify.3

mtk

CONFORMING TO: Note that the standards provide a weaker guarantee for the return value of isinf().

log.3

mtk

BUGS: In glibc 2.5 and earlier, log(nan("")) produces a bogus FE_INVALID exception.

lround.3

mtk

Add reference to fenv(3) for discussion of current rounding mode.

nextafter.3

mtk

BUGS: In glibc 2.5 and earlier these functions do not raise an FE_UNDERFLOW exception on underflow.

pow.3

mtk

BUGS: described buggy NaN return when x is negative and y is large.

See also: http://sources.redhat.com/bugzilla/show_bug.cgi?id=3866.

BUGS: Note the bogus FE_INVALID exception that occurred in glibc 2.3.2 and earlier on overflow and underflow.

remainder.3

mtk

Add reference to fenv(3) for discussion of current rounding mode.

round.3

mtk

Add reference to fenv(3) for discussion of current rounding mode.

scalb.3

mtk

CONFORMING TO: POSIX.1-2008 removes the specification of scalb().

tgamma.3

mtk

BUGS: In glibc 2.3.3, tgamma(+0) produced a domain error instead of a pole error.

y0.3

mtk

In glibc 2.3.2 and earlier, these functions do not raise an FE_INVALID exception for a domain error.

math_error.7

mtk

Rewrite introductory paragraph.
Point out that a NaN is commonly returned by functions that report a domain error.

==== Changes in man-pages-3.08 =====

Released: 2008-08-27, Zurich

Contributors

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Venkatesh Srinivas <me@acm.jhu.edu>

Vijay Kumar <vijaykumar@bravegnu.org>

Apologies if I missed anyone!

New and rewritten pages

getnetent_r.3

mtk

Documents getnetent_r(), getnetbyname_r(), and getnetbyaddr_r(), the reentrant equivalents of getnetent(), getnetbyname(), and getnetbyaddr().

getprotoent_r.3

mtk

Documents getprotoent_r(), getprotobyname_r(), and getprotobynumber_r(), the reentrant equivalents of getprotoent(), getprotobyname(), and getprotobynumber().

getrpcnt_r.3

mtk

Documents getrpcnt_r(), getrpcbyname_r(), and getrpcbynumber_r(), the reentrant equivalents of getrpcnt(), getrpcbyname(), and getrpcbynumber().

getservent_r.3

mtk

Documents getservent_r(), getservbyname_r(), and getservbyport_r(), the reentrant equivalents of getservent(), getservbyname(), and getservbyport().

numa.7

mtk

A new page giving overview details for the Linux NUMA interfaces. Incorporates some material from mbind.2, and the description of /proc/PID/numa_maps from proc.5.

Newly documented interfaces in existing pages

crypt.3

mtk

Add description of crypt_r().

New and changed links

crypt.3

mtk

New link to crypt.3.

getnetbyname_r.3

getnetbyaddr_r.3

mtk

New links to new getnetent_r.3.

getprotobyname_r.3

getprotobynumber_r.3

mtk

New links to new getprotoent_r.3.

getrpcbyname_r.3

getrpcbynumber_r.3

mtk

New links to new getrpcent_r.3.

getservbyname_r.3

getservbyport_r.3

mtk

New links to new getservent_r.3.

numa_maps.5

mtk

Link to new numa(7) page, which incorporates the
/proc/PID/numa_maps description.

As part of the numactl() package, the /proc/PID/numa_maps
documentation was in a numa_maps.5 page; this link
ensures that "man 5 numa_maps" still works.

(Eventually, we may want to remove this link.)

Global changes

get_mempolicy.2

mbind.2

move_pages.2

set_mempolicy.2

mtk

Add reference to numa(7) for information on library support.

Added a VERSIONS section.

SEE ALSO: Add numa(7).

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
mkdirat.2
mknodat.2
linkat.2
openat.2
readlinkat.2
renameat.2
symlinkat.2
unlinkat.2
mkfifoat.3
psignal.3
strsignal.3

mtk

These interfaces are specified in POSIX.1-2008.

Changes to individual pages

eventfd.2

Vijay Kumar

When an eventfd overflows, select() indicates the file as both readable and writable (not as having an exceptional condition).

fcntl.2

mtk

F_DUPFD_CLOEXEC is specified in POSIX.1-2008.

getrlimit.2

mtk

NOTES: Add text mentioning the shell 'ulimit' (or 'limit') built-in command for setting resource limits.

gettimeofday.2

mtk

CONFORMING TO: POSIX.1-2008 marks gettimeofday() as obsolete.

link.2

mtk

Note kernel version where Linux stopped following symbolic links in 'oldpath'; see also <http://lwn.net/Articles/294667>.
POSIX.1-2008 makes it implementation-dependent whether or not 'oldpath' is dereferenced if it is a symbolic link.
Add a reference to linkat(2) for an interface that allows

precise
control of the treatment of symbolic links.

mbind.2

mtk

Remove material on library support and numactl; that material is now in numactl.7.

mmap.2

mtk

Add kernel version numbers for MAP_32BIT.

Add some details on MAP_32BIT (see <http://lwn.net/Articles/294642>).

move_pages.2

mtk

Added VERSIONS (from kernel 2.6.18) and CONFORMING TO sections.

open.2

mtk

O_CLOEXEC is specified in POSIX.1-2008.

socket.2

mtk

s/d/domain/ for name of argument.

Add reference to socket(2) for further information on domain, type, and protocol arguments.

utimensat.2

mtk

CONFORMING TO: POSIX.1-2008 specifies utimensat() and futimens().

dirfd.3

mtk

CONFORMING TO: Add POSIX.1-2008; other minor changes.

exec.3

mtk

Small rewording: "s/returned/failed with/ [an error]".

fmemopen.3

mtk

Since glibc 2.7, it is possible to seek past the end of a stream created by open_memstream().

Add a BUGS section

describing the bug in earlier glibc versions.

gethostbyname.3

mtk

Clarify exactly which functions are obsoleted by `getnameinfo()` and `getaddrinfo()`.

getnetent.3

mtk

Rephrase description in terms of a database, rather than a file.

Note that each of the `get*()` functions opens a connection to the database if necessary.

The database connection is held open between `get*()` calls if 'stayopen' is non-zero (not necessarily 1).

s/zero terminated list/NULL-terminated list/

mtk

In glibc 2.2, the type of the 'net' argument for `getnetbyaddr()` changed from 'long' to 'uint32_t'.

mtk

Note that the `gethostbyaddr()` 'net' argument is in host byte order.

mtk

RETURN VALUE: emphasize that returned pointer points to a statically allocated structure.

SEE ALSO: add `getnetent_r.3`.

getprotoent.3

mtk

Rephrase description in terms of a database, rather than a file.

Note that each of the `get*()` functions opens a connection to the database if necessary.

The database connection is held open between `get*()` calls if 'stayopen' is non-zero (not necessarily 1).

s/zero terminated list/NULL-terminated list/

mtk

RETURN VALUE: emphasize that returned pointer points to a statically allocated structure.

SEE ALSO: add `getprotoent_r.3`.

getrpcent.3

mtk

s/rpc/RPC/.

Rephrase description in terms of a database, rather than a file.

Note that each of the `get*()` functions opens a connection to the database if necessary.

s/zero terminated list/NULL-terminated list/

mtk

RETURN VALUE: emphasize that returned pointer points to a statically allocated structure.

SEE ALSO: add `getrpcent_r.3`.

getservent.3

mtk

Rephrase description in terms of a database, rather than a file.

Note that

each of the get*() functions opens a connection to the database if necessary.

The database connection is held open between get*() calls if 'stayopen' is non-zero (not necessarily 1).

s/zero terminated list/NULL-terminated list/

mtk

RETURN VALUE: emphasize that returned pointer points to a statically allocated structure.

SEE ALSO: add getservent_r.3.

mkdtemp.3

mtk

CONFORMING TO: this function is specified in POSIX.1-2008.

mq_notify.3

Venkatesh Srinivas

s/sigev_notify_function/sigev_thread_function/

as per <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=494956>.

realpath.3

mtk

Relocate text for resolved_path==NULL case to DESCRIPTION.

POSIX.1-2001 leaves the resolved_path==NULL case as

implementation-defined; POSIX.1-2008 specifies the behavior described in this man page.

sem_init.3

mtk

POSIX.1-2008 rectifies the POSIX.1-2001 omission, specifying that zero is returned by a successful sem_init() call.

core.5

Mike Bianchi / mtk

Make the page more helpful to non-programmers by referencing the documentation of the shell's 'ulimit' command in the discussion of RLIMIT_CORE and RLIMIT_FSIZE.

SEE ALSO: Add bash(1).

mtk

Note that a core dump file can be used in a debugger.

proc.5

mtk

Remove /proc/PID/numa_maps material (it is now in numa(7)).

cpuset.7

mtk

SEE ALSO: Add numa(7).

inotify.7

mtk / Li Zefan

Explain bug that occurred in coalescing identical events in kernels before 2.6.25.

(See commit 1c17d18e3775485bf1e0ce79575eb637a94494a2

"A potential bug in inotify_user.c" in the 2.6.25 Changelog.)

pthread.7

mtk

Update thread-safe functions list with changes in POSIX.1-2008.

SEE ALSO: add proc(5).

signal.7

mtk

Update list of async-signal-safe functions for POSIX.1-2008.

=====

Changes in man-pages-3.09 =====

Released: 2008-09-10, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

fopencookie.3

mtk

Document fopencookie(3), a library function that allows custom implementation of a stdio stream.

networks.5

Martin (Joey) Schulze, with a few light edits by mtk

Documents the /etc/networks file.

Global changes

Various pages

mtk

s/time zone/timezone/ for consistency across pages and with POSIX.1.

kill.2

sigaction.2

sigpending.2

sigprocmask.2

sigsuspend.2

confstr.3

ctermid.3

ctime.3

ferror.3

flockfile.3

fopen.3

getaddrinfo.3

getgrnam.3

getnameinfo.3

getopt.3

getpwnam.3

longjmp.3

popen.3

rand.3

readdir.3

setjmp.3

sigsetops.3

sigwait.3

strtok.3

tzset.3

unlocked_stdio.3

mtk

Add/fix feature test macro requirements.

Changes to individual pages

fcntl.2

mtk, after a note by Mike Bianchi

More clearly and consistently describe whether or not the third argument to fcntl() is required, and what its type should be.

mtk

Move description of negative l_len

from NOTES, integrating

it into the discussion of file locking.

Minor rewrites of the text on file locking.

getrusage.2

Bernd Eckenfels

SEE ALSO: Add clock(3), clock_gettime(3).

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=353475>

ioctl_list.2

mtk

Remove old sentence about where to send updates for this page.

Add more detail on mount options that prevent updates to atime.

sched_setscheduler.2

Carsten Emde

Update kernel version numbers relating to real-time support.

stat.2

H. Peter Anvin

Note that lstat() will generally not trigger automounter action, whereas stat() will.

clock.3

Bernd Eckenfels

SEE ALSO: Add clock_gettime(3).

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=353475>

clock_getres.3

Tolga Dalman / mtk

Add "Link with -lrt" to SYNOPSIS; remove now redundant sentence mentioning librt from NOTES.

getdate.3

mtk

Rewrite

description of getdate_r() and integrate into main text

(rather than describing in NOTES).

Other parts rewritten for greater clarity.

Make it clearer in the main text that glibc does not implement %Z;

remove discussion of that point from NOTES.

Added an example program.

hsearch.3

mtk

Noted that table size as specified by 'nel' is immutable.

Described differences between hsearch() and hsearch_r().

Added missing pieces to RETURN VALUE.

Added a number of new entries under ERRORS.

NOTES: added some basic advice on sizing the hash table;

noted that when a table is destroyed, the caller is responsible

for freeing the buffers pointed to by 'key' and 'data' fields.

One of the BUGS was fixed in glibc 2.3.

Rewrote and clarified various other pieces.

Rename arguments for reentrant functions, using same name as

glibc headers: s/ret/retval/; s/tab/htab/.

mtk, after

a suggestion by Timothy S. Nelson

Integrate discussion of reentrant functions into main discussion

(rather than as a short paragraph at the end).

iconv.3

Bruno Haible

Describe "shift sequence" input.

ptsname.3

sukadev

Fix return type of ptsname_r() in SYNOPSIS.

readdir.3

H. Peter Anvin

s/stat(2)/lstat(2)/ when discussing d_type (since we

are talking about a case where we might be interested to

whether the file itself is a symbolic link).

sigsetops.3

Chris Head, signed-off-by: Mike Frysinger

Fix typo: s/sigdelset/sigorset/

proc.5

Mats Wichmann / mtk

s/[number]/[pid]/ in file names for /proc/PID files.

And similar changes for task/[tid] sub-directories.

mtk / Mats Wichmann

In the description of /proc/[pid]/environ, remove reference to lilo(8)/grub(8) since there seems to be nothing in those pages that related to this /proc file.

Michael Schurter / mtk

Remove sentence wrongly saying that /proc/meminfo reports info in bytes;

see <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=462969>

mtk

Note that /proc/meminfo reports system-wide memory usage statistics.

Joe Korty

Document new fields in /proc/interrupts that were added in Linux 2.6.24.

unix.7

Marko Kreen

Since glibc 2.8, _GNU_SOURCE must be defined in order to get the definition of the ucred structure from <sys/socket.h>.

==== Changes in man-pages-3.10 =====

Released: 2008-09-23, Munich

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

closedir.3
dirfd.3
readdir.3
rewinddir.3
scandir.3
seekdir.3
telldir.3

mtk

Fix 'dir' argument name: should be 'dirp'.

POSIX.1-2008 and glibc call this argument 'dirp' (consistent with the fact that it is a *pointer* to a DIR structure).

Changes to individual pages

clone.2

mtk, after a comment by John Reiser

Clarify text describing getpid() caching bug for clone() wrapper.

See also:

http://sourceware.org/bugzilla/show_bug.cgi?id=6910

https://bugzilla.redhat.com/show_bug.cgi?id=417521

getpid.2

mtk, after a comment by John Reiser

Describe getpid()'s PID caching and its consequences.

timerfd_create.2

Sam Varshavchik

s/it_interval/it_value/ when talking about TIMERFD_ABSTIME.

closedir.3

George Spelvin

Clarify closedir()'s treatment of underlying file descriptor.

tsearch.3

André Goddard Rosa

Fix memory leak in example program.

Add use of tdestroy to example program.

mtk

Add "#define _GNU_SOURCE" to example program.

protocols.5

mtk, after a note from Pavel Heimlich

Remove SEE ALSO references to nonexistent Guides to Yellow Pages

services.5

mtk

Remove some out-of-date bugs.

mtk, after a note from Pavel Heimlich

Remove SEE ALSO references to nonexistent Guides to Yellow Pages
and Bind/Hesiod docs.

mtk

Remove crufty text about use of comma instead of slash to separate
port and protocol.

===== Changes in man-pages-3.11 =====

Released: 2008-10-07, Munich

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

umount.2

Michael Kerrisk

Create a new page for umount() and umount2() by extracting
existing material from mount.2 page.

New and changed links

umount2.2

Michael Kerrisk

Change link to point to new umount.2

The umount2() material migrated from mount.2 to umount.2

Changes to individual pages

execve.2

Michael Kerrisk

_SC_ARG_MAX is no longer necessarily constant

POSIX.1-2001 says that the values returned by sysconf() are constant for the life of the process.

But the fact that, since Linux

2.6.23, ARG_MAX is settable

via RLIMIT_STACK means _SC_ARG_MAX is no longer constant, since it can change at each execve().

Michael Kerrisk

Linux now imposes a floor on the ARG_MAX limit

Starting with Linux 2.6.23, the ARG_MAX limit became settable via (1/4 of) RLIMIT_STACK. This broke ABI compatibility if RLIMIT_STACK was set such that ARG_MAX was < 32 pages. Document the fact that since 2.6.25 Linux imposes a floor on ARG_MAX, so that the old limit of 32 pages is guaranteed.

For some background on the changes to ARG_MAX in kernels 2.6.23 and 2.6.25, see:

http://sourceware.org/bugzilla/show_bug.cgi?id=5786

http://bugzilla.kernel.org/show_bug.cgi?id=10095

<http://thread.gmane.org/gmane.linux.kernel/646709/focus=648101>,
checked into 2.6.25 as

commit a64e715fc74b1a7dcc5944f848acc38b2c4d4ee2.

Also some reordering/rewording of the discussion of ARG_MAX.

fallocate.2

Michael Kerrisk

Note lack of glibc wrapper; caller must use syscall(2)

Glibc doesn't (and quite probably won't) include a wrapper for this system call. Therefore, point out that potential callers will need to use syscall(2), and rewrite the RETURN VALUE text to show things as they would be if

syscall() is used.

Michael Kerrisk

Refer reader to `posix_fallocate(3)` for portable interface
Add a para to start of page that points out that this is the
low-level, Linux-specific API, and point the reader to
`posix_fallocate(3)` for the portable API.

getdents.2

readdir.3

Michael Kerrisk

`d_type` is currently only supported on `ext[234]`
As at kernel 2.6.27, only `ext[234]` support `d_type`.
On other file systems, `d_type` is always set to `DT_UNKNOWN`
(0).

getdents.2

Michael Kerrisk

Add an example program

Michael Kerrisk

comment out `linux_dirent` fields with varying location
The location of the fields after `d_name` varies according to
the size of `d_name`. We can't properly declare them in C;
therefore, put those fields inside a comment.

Michael Kerrisk

The `DT_*` constants are defined in `<dirent.h>`

Michael Kerrisk

Remove header files from SYNOPSIS
None of the header files provides what is needed.
Calls are made via `syscall(2)`.

Michael Kerrisk

The programmer must define the `linux_dirent` structure
Point out that this structure is not defined in glibc headers.

Michael Kerrisk

`s/dirent/linux_dirent/`
The structure isn't currently defined in glibc headers,
and the kernel name of the structure is `'linux_dirent'` (as
was already used in some, but not all, places in

this page).

getrlimit.2

Michael Kerrisk

Reword/relocate discussion of BSD's historical `RLIMIT_OFILE`
The old sentence sat on its own in an odd place, and anyway the
modern BSDs use the name `RLIMIT_NOFILE`.

Michael Kerrisk

Refer to `execve(2)` for `RLIMIT_STACK`'s effect on `ARG_MAX`
Refer the reader to new text in `execve(2)` that describes how

(since Linux 2.6.23) RLIMIT_STACK determines the value of ARG_MAX.

getrusage.2

Michael Kerrisk

Rusage measures are preserved across execve(2)

mlock.2

Maxin John

Add EAGAIN error.

move_pages.2

Nicolas François

Make a detail of EPERM error more precise

mount.2

Michael Kerrisk

Add description of per-process namespaces

Describe per-process namespaces, including discussion of clone() and unshare CLONE_NEWNS, and /proc/PID/mounts.

Michael Kerrisk

List a few other file systems that we may see in /proc/filesystems

Add some modern file systems to that list (xfs, jfs, ext3, reiserfs).

Michael Kerrisk

Document MS_SILENT (and MS_VERBOSE)

mount.2

umount.2

Michael Kerrisk

Split umount*() out into a separate page

The length of this page means that it's becoming difficult to parse which info is specific to mount() versus umount()/umount2(), so split the umount material out into its own page.

pause.2

Michael Kerrisk

Remove mention of words "library function"

This really is a system call.

readdir.2

Michael Kerrisk

The programmer must declare the old_linux_dirent structure

Glibc does not provide a definition of this structure.

Michael Kerrisk

s/dirent/old_linux_dirent/

Nowadays, this is the name of the structure in the kernel sources.

Michael Kerrisk

Remove words "which may change"

These words

are slightly bogus: although the interface

is obsolete, for ABI-compatibility reasons, the kernel folk
should never be changing this interface.

Michael Kerrisk

Remove header files from SYNOPSIS

glibc doesn't provide any support for `readdir(2)`,
so remove these header files (which otherwise suggest
that glibc does provide the required pieces).

recv.2

Nicolas François

Move kernel version number to first mention to `MSG_ERRQUEUE`.

semop.2

Kirill A. Shutemov

Fix typo in example

(The '&' before `sop` in the `semop()` call is unneeded.)

send.2

Michael Kerrisk

Make kernel version for `MSG_CONFIRM` more precise
`s/2.3+ only/Since Linux 2.3.15/`

sigaction.2

Michael Kerrisk

Refer reader to `signal(7)` for an overview of signals
Explain semantics of signal disposition during `fork()` and `execve()`
Refer to `signal(7)` for more details on signal mask.

sigaltstack.2

Michael Kerrisk

Explain inheritance of alternate signal stack across `fork(2)`

sigwaitinfo.2

Michael Kerrisk

Distinguish per-thread and process-wide signals
A sentence clarifying that pending signal set is union of
per-thread and process-wide pending signal sets.

Michael Kerrisk

These interfaces have per-thread semantics

The page was previously fuzzy about whether these interfaces
have process-wide or per-thread semantics. (E.g., now the
page states that the calling `*thread*` (not process) is suspended
until the signal is delivered.)

sigpending.2

Michael Kerrisk

Explain effect of fork() and execve() for pending signal set

Michael Kerrisk

Explain how thread's pending signal set is defined

The pending set is the union of per-thread pending signals and process-wide pending signals.

sigprocmask.2

Michael Kerrisk

Explain effects of fork() and execve() for signal mask

splice.2

Michael Kerrisk

Note that SPLICE_F_MOVE is a no-op since kernel 2.6.21

syscall.2

Michael Kerrisk

Add more detail about wrapper functions

Add a few more details about work generally done by wrapper functions. Note that syscall(2) performs the same steps.

tkill.2

Michael Kerrisk

EINVAL error can also occur for invalid TGID

The EINVAL error on an invalid TGID for tkill() was not documented; this change documents it.

utimensat.2

Michael Kerrisk

POSIX.1-2008 revision will likely affect FTMs for futimens()

Make it clear that the POSIX.1 revision that is likely to affect the feature test macro requirements for futimens() is POSIX.1-2008.

Nicolas François

Make various wordings a little more precise.

The times argument point to *an array of* structures, and the

man-page should say that consistently.

wait4.2

Michael Kerrisk

wait3() is a library function layered on wait4().

On Linux wait3() is a library function implemented on top of wait4(). (Knowing this is useful when using strace(2), for example.)

atan2.3

Nicolas François

Fix error in description of range or return value

In recent changes to the man page, mtk accidentally changed the description of the return value range to $-\pi/2..pi/2$; the correct range is $-\pi..pi$.

cmmsg.3

Nicolas François

Add parentheses after macro names.

ctime.3

Michael Kerrisk

Clarify mktime()'s use of tm_isdst

Describe use of tm_isdst for input to mktime(); explain how mktime() modifies this field. (This field is left unchanged in case of error.)

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=500178>

Michael Kerrisk

Clarify wording

for ctime_r() and asctime_r() to indicate that the buffer must be at least 26 *bytes*.

Michael Kerrisk

Minor rewording of mktime() description.

floor.3

Nicolas François

floor.3: Fix error in description: s/smallest/largest/

hsearch.3

André Goddard Rosa

Call hdestroy() after using hash table created by hcreate(), for the sake of completeness

mq_getattr.3

Michael Kerrisk

mq_getattr() and mq_setattr() are layered on mq_getsetattr(2) mq_getattr() and mq_setattr() are library functions layered on top of the mq_getsetattr(2) system call. (This is useful info for users of strace(1).)

mq_receive.3

Michael Kerrisk

mq_send() is a library function layered on mq_timedreceive() syscall This info is useful for users of strace(1).

mq_send.3

Michael Kerrisk

mq_send() is a library function layered on mq_timedsend() syscall

This info is useful for
users of strace(1).

nextafter.3

Nicolas François

Make description more precise: s/next/largest/

readdir.3

Michael Kerrisk

SEE ALSO: add getdents(2)

Because readdir() is implemented on top of getdents(2).

realpath.3

Michael Kerrisk

Clarify that returned pathname is NULL terminated

Also clarify that null-byte is included in PATH_MAX limit.

proc.5

Michael Kerrisk

Rewrite and simplify description of /proc/mounts

Most of the relevant discussion is now under /proc/PID/mounts;
all that needs to be here is a mention of the pre-2.4.19
system-wide namespace situation, and a reference to the
discussion under /proc/PID/mounts.

Michael Kerrisk

Add description of /proc/PID/mounts

Largely cribbed from existing /proc/mounts discussion, which is
about to be rewritten.

mq_overview.7

Michael Kerrisk

Add mq_notify() to list of lib. functions
and syscalls in MQ API

signal.7

Michael Kerrisk

Improve description in NAME section

Add mention of sigaltstack(2).

Describe syscalls that synchronously wait for a signal,

Give overview of syscalls that block until a signal is caught

Add overview of interfaces for sending signals.

Michael Kerrisk

Describe semantics w.r.t. fork() and execve()

Include text describing semantics of fork() and execve() for

signal dispositions, signal mask, and pending signal set.

==== Changes in man-pages-3.12 =====

Released: 2008-10-29, Bucaramanga

Contributors

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Apologies if I missed anyone!

New and rewritten pages

pthread_attr_init.3

Michael Kerrisk

New page for pthread_attr_init(3) and pthread_attr_destroy(3)

pthread_attr_setdetachstate.3

Michael Kerrisk

New page for pthread_attr_setdetachstate(3) and pthread_attr_getdetachstate(3)

pthread_attr_setguardsize.3

Michael Kerrisk

New page for pthread_attr_setguardsize(3) and pthread_attr_getguardsize(3)

pthread_attr_setscope.3

Michael Kerrisk

New page for pthread_attr_setscope(3) and pthread_attr_getscope(3)

pthread_attr_setstack.3

Michael Kerrisk

New page for pthread_attr_setstack(3) and pthread_attr_getstack(3)

pthread_attr_setstackaddr.3

Michael Kerrisk

New page for pthread_attr_setstackaddr(3)

and

pthread_attr_getstackaddr(3)

pthread_attr_setstacksize.3

Michael Kerrisk

New page for pthread_attr_setstacksize(3) and

pthread_attr_getstacksize(3)

pthread_create.3

Michael Kerrisk

New page describing pthread_create(3)

pthread_detach.3

Michael Kerrisk

New page for pthread_detach(3)

pthread_equal.3

Michael Kerrisk

New page for pthread_equal(3)

pthread_exit.3

Michael Kerrisk

New page describing pthread_exit(3)

pthread_getattr_np.3

Michael Kerrisk

New page for pthread_getattr_np(3)

pthread_join.3

Michael Kerrisk

New page for pthread_join(3)

pthread_self.3

Michael Kerrisk

New page for pthread_self(3)

pthread_tryjoin_np.3

Michael Kerrisk

New page for pthread_tryjoin_np(3) and pthread_timedjoin_np(3)

Newly documented interfaces in existing pages

dup.2

Michael Kerrisk

Add description
of dup3()

dup3() was added in kernel 2.6.27.

epoll_create.2

Michael Kerrisk

Add description of new epoll_create1()

The new epoll_create1() system call appeared in Linux 2.6.27.

eventfd.2

Michael Kerrisk

Describe eventfd2() and EFD_NONBLOCK and EFD_CLOEXEC

Linux 2.6.27 added eventfd(), which supports a flags argument
that eventfd2() did not provide. The flags so far implemented
are EFD_NONBLOCK and EFD_CLOEXEC,

inotify_init.2

Michael Kerrisk

Add description of inotify_init1()

The inotify_init1() system call was added in Linux 2.6.27.

pipe.2

Michael Kerrisk

Add description of new pipe2() syscall

pipe2() was added in 2.6.27. Describe the O_NONBLOCK and
O_CLOEXEC flags.

signalfd.2

Michael Kerrisk

Describe signalfd4() and SFD_NONBLOCK and SFD_CLOEXEC

Linux 2.6.27 added signalfd4(), which supports a flags argument
that signalfd() did not provide. The flags so far implemented
are SFD_NONBLOCK and SFD_CLOEXEC.

New and changed links

dup3.2

Michael Kerrisk

New link to dup.2

dup.2 now contains the description of the new dup3() syscall.

epoll_create1.2

Michael Kerrisk

New link to epoll_create.2

epoll_create.2 now includes a description of the new
epoll_create1() system call.

eventfd2.2

Michael Kerrisk

New link to eventfd.2

The eventfd.2 page has some details on the eventfd2() system call,
which was new in Linux 2.6.27.

inotify_init1.2

Michael Kerrisk

New link to inotify_init.2

inotify_init.2 now includes a description of the new
inotify_init1() system call.

pipe2.2

Michael Kerrisk

New link to pipe.2

pipe(2) now contains a description of the new pipe2() syscall.

pthread_attr_destroy.3

Michael

Kerrisk

New link to new pthread_attr_init.3

pthread_attr_getdetachstate.3

Michael Kerrisk

New link to new pthread_attr_setdetachstate.3

pthread_attr_getguardsize.3

Michael Kerrisk

New link to new pthread_attr_setguardsize.3

pthread_attr_getscope.3

Michael Kerrisk

New link to new pthread_attr_setscope.3

pthread_attr_getstack.3

Michael Kerrisk

New link to new pthread_attr_setstack.3

pthread_attr_getstackaddr.3

Michael Kerrisk

New link to new pthread_attr_setstackaddr.3

pthread_attr_getstacksize.3

Michael Kerrisk

New link to new pthread_attr_setstacksize.3

pthread_timedjoin_np.3

Michael Kerrisk

New link to new pthread_tryjoin_np.3

signalfd4.2

Michael Kerrisk

New link to signalfd.2

signalfd.2 now includes text describing signalfd4() system call,
new in Linux 2.6.27.

Global changes

eventfd.2, getdents.2, mprotect.2, signalfd.2, timerfd_create.2,
wait.2,

backtrace.3, clock_getcpuclockid.3, end.3, fmemopen.3,
fopencookie.3, getdate.3, getgrouplist.3, getprotoent_r.3,
getservent_r.3, gnu_get_libc_version.3, inet.3, inet_pton.3,
makecontext.3, matherr.3, offsetof.3, pthread_attr_init.3,
pthread_create.3, pthread_getattr_np.3, sem_wait.3, strtol.3, core.5

Michael Kerrisk

Add ".SS Program source" to EXAMPLE

Add ".SS Program source" to clearly distinguish shell session and
descriptive text from actual program code.

eventfd.2, execve.2, getdents.2, ioprio_set.2, mprotect.2,
signalfd.2, timerfd_create.2, wait.2, backtrace.3,
clock_getcpuclockid.3, end.3, fmemopen.3, fopencookie.3, frexp.3,
getdate.3, getgrouplist.3, getprotoent_r.3, getservent_r.3,
gnu_get_libc_version.3, inet.3, inet_pton.3, makecontext.3,
malloc.3, matherr.3, offsetof.3, pthread_attr_init.3,
pthread_create.3, pthread_getattr_np.3, sem_wait.3, strptime.3,
strtok.3, strtol.3, core.5, proc.5, cpuset.7, mq_overview.7

Michael

Kerrisk

Format user input in shell sessions in boldface

frexp.3, strptime.3, strtok.3

Michael Kerrisk

Relocate shell session above example program

Move the shell session text that demonstrates the use of the example program so that it precedes the actual example program. This makes the page consistent with the majority of other pages.

Changes to individual pages

epoll_create.2

Michael Kerrisk

Say more about unused `epoll_create()` 'size' arg

Supply a little more explanation about why the 'size' argument of `epoll_create()` is nowadays ignored.

eventfd.2

Michael Kerrisk

Remove crufty text relating to flags argument

Remove sentence saying that `glibc` adds a flags argument to the syscall; that was only relevant for the older `eventfd()` system call.

getdents.2

Christoph Hellwig

Fix text relating

to `DT_UNKNOWN` and 'd_type' support

Some file systems provide partial support for 'dt_type', returning `DT_UNKNOWN` for cases they don't support.

Update the discussion of 'd_type' and `DT_UNKNOWN` to support this.

getpeername.2, getsockname.2

Michael Kerrisk

SEE ALSO: add `ip(7)` and `unix(7)`

getsockopt.2

Michael Kerrisk

`EINVAL` can also occur if 'optval' is invalid

In some cases, `EINVAL` can occur if 'optval' is invalid.

Note this, and point reader to an example in `ip(7)`.

In response to:

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=216092>

inotify_init.2

pipe.2

timerfd_create.2

Michael Kerrisk

Clarify `*_NONBLOCK` description

Make it clear that the `NONBLOCK` flag sets an attribute in the new

open file description.

sched_yield.2

Michael Kerrisk

Rewrite description in terms of threads

The text formerly described the

operation of sched_yield() in

terms of processes. It should be in terms of threads.

Michael Kerrisk

Add NOTES text on appropriate use of sched_yield()

Strategic calls to sched_yield() can be used to improve performance, but unnecessary use should be avoided.

sigaction.2

Michael Kerrisk

Clarify that sa_mask affects the *per-thread* signal mask

The page didn't previously clearly explain the scope of the signal mask that is affected by sa_mask.

signalfd.2

Michael Kerrisk

Remove crufty text relating to flags argument

Remove sentence saying that glibc adds a flags argument to the syscall; that was only relevant for the older signalfd() system call.

sigprocmask.2

Michael Kerrisk

Clarify that sigprocmask() operates on a per-thread mask

The first sentence of the page was vague on the scope of the attribute changed by sigprocmask().

Reword to make this

clearer and add a sentence in NOTES to explicitly state that the signal mask is a per-thread attribute.

socket.2

Michael Kerrisk

Document SOCK_NONBLOCK and SOCK_CLOEXEC flags

These flags, specified in the 'type' argument, are supported since Linux 2.6.27.

socketpair.2

Michael Kerrisk

Refer to socket(2) for SOCK_CLOEXEC and SOCK_NONBLOCK

Refer the reader to socket(2) for a description of the SOCK_CLOEXEC and SOCK_NONBLOCK flags, which are supported by socketpair() since Linux 2.6.27.

syscalls.2

Michael Kerrisk

Add new 2.6.27 system calls

Add pipe2(), dup3(), epoll_create1(), inotify_init1(),
eventfd2(), signalfd4().

timerfd_create.2

Michael Kerrisk

Document timerfd_create() TFD_CLOEXEC and TFD_NONBLOCK

TFD_CLOEXEC and TFD_NONBLOCK are supported since Linux 2.6.27.

vfork.2

Michael Kerrisk

Clarify meaning of "child releases the parent's memory"

The man page was not explicit about how the memory used by
the child is released back to the parent.

ctime.3

Michael Kerrisk

ctime_r() and localtime_r() need not set 'timezone' and 'daylight'

The man page already noted that these functions need not set
'tzname', but things could be clearer: it tzset() is not called,
then the other two variables also are not set.

Also, clarify that ctime() does set 'timezone' and 'daylight'.

dlopen.3

Michael Kerrisk

LD_LIBRARY_PATH is inspected once, at program start-up

Make it clear that LD_LIBRARY_PATH is inspected *once*, at
program start-up. (Verified from source and by experiment.)

fmemopen.3

Michael Kerrisk

Document binary mode (mode 'b')

Glibc 2.9 adds support to fmemopen() for binary mode opens.

Binary mode is specified

by inclusion of the letter 'b' in

the 'mode' argument.

getaddrinfo.3

Michael Kerrisk

Clarify error descriptions with some examples

Clarify the description of some errors by giving examples
that produce the errors. (Text added for EAI_SERVICE and
EAI_SOCKTYPE.)

Also, add an error case for EAI_BADFLAGS.

gethostbyname.3

Michael Kerrisk

Rationalize text on POSIX.1-2001 obsolete interfaces

POSIX.1 marks `gethostbyname()`, `gethostbyaddr()`, and `'h_errno'` as obsolete. The man page explained this, but with some duplication. Remove the duplication, and otherwise tidy up discussion of this point.

popen.3

Michael Kerrisk

Change one-line description in NAME

s%process I/O%pipe stream to or from a process%

Michael Kerrisk

Document 'e' (close-on-exec) flag

glibc 2.9 implements the 'e' flag in 'type', which sets the

close-on-exec flag on the underlying file descriptor.

raise.3

Michael Kerrisk

SEE ALSO: add `pthread_kill(3)`

readdir.3

Christoph Hellwig

Fix text relating to `DT_UNKNOWN` and `'d_type'` support

(This mirrors the previous change to `getdents.2`)

Some file systems provide partial support for `'dt_type'`, returning `DT_UNKNOWN` for cases they don't support.

Update the discussion of `'d_type'` and `DT_UNKNOWN` to support this.

strcpy.3

Jason Spiro

Strengthen warning about checking against buffer overruns

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=413940>

tty_ioctl.4

Michael Kerrisk

Explain capability requirements for `TIOCCONS`

Explain capability requirements for `TIOCCONS`, and describe changes in 2.6.10 relating to capabilities.

Michael Kerrisk

Explain capability requirements for various `ioctl`s

For `TIOCSLCKTRMIO`s, `TIOCSCTTY`,

`TIOCEXCL`, explain the exact

capability that is required (the text formerly just said "root" in each case).

proc.5

Michael Kerrisk

Document /proc/sys/kernel/threads-max

Defines the system-wide limit on the number of threads (tasks).

utmp.5

Pierre Cazenave

It is just "other" who should not have write perms on utmp

The page was vague before, saying that utmp should not be writable by any user. This isn't true: it can be, and typically is, writable by user and group.

epoll.7

Michael Kerrisk

Mention `epoll_create1()` as part of epoll API

`epoll_create1()` was added in Linux 2.6.27, and extends the functionality of `epoll_create()`.

inotify.7

Michael Kerrisk

Mention `inotify_init1()` in overview of API

Discuss the new `inotify_init1()` system call in the overview of the inotify API.

ip.7

Michael Kerrisk

Detail EINVAL

error for `IP_ADD_MEMBERSHIP` socket option

In response to:

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=216092>

iso_8859-7.7

Lefteris Dimitroulakis

Add Drachma, Euro, and Greek Ypogegrammeni

Also, amend description of characters 0241 and 0242.

man-pages.7

Michael Kerrisk

Example shell sessions should have user input boldfaced

pthread.7

Michael Kerrisk

Describe return value from pthreads functions

Describe the usual success (0) and failure (non-zero) returns, and note that POSIX.1-2001 specifies that pthreads functions can never fail with the error EINTR.

signal.7

Michael Kerrisk

Timeouts make socket interfaces non-restartable

If setsockopt() is used to set a timeout on a socket(), then the various socket interfaces are not automatically restarted, even if SA_RESTART is specified when establishing the signal handler.

Analogous behavior occurs

for the "stop signals" case.

socket.7

Michael Kerrisk

SEE ALSO: add unix(7)

ld.so.8

Michael Kerrisk

Document LD_USE_LOAD_BIAS

Drawing heavily on Jakub Jelinek's description in

<http://sources.redhat.com/ml/libc-hacker/2003-11/msg00127.html>

(Subject: [PATCH] Support LD_USE_LOAD_BIAS)

--inhibit-rpath is ignored for setuid/setgid ld.so

The --inhibit-rpath option is ignored if ld.so is setuid/setgid

(not if the executable is setuid/setgid).

Michael Kerrisk

Since glibc 2.4, setuid/setgid programs ignore LD_ORIGIN_PATH

Michael Kerrisk

Fix description of LD_PROFILE and LD_PROFILE_OUTPUT

Clarify that LD_PROFILE is pathname or a soname,

and identify name of profiling output file.

Fix description of LD_PROFILE_OUTPUT, which wasn't even close to the truth. (But why did it remain unfixed for

so many years?)

Michael Kerrisk

Since glibc 2.3.4, setuid/setgid programs ignore LD_DYNAMIC_WEAK

Michael Kerrisk

Since version 2.3.5, setuid/setgid programs ignore LD_SHOW_AUXV

Michael Kerrisk

Reorder lists of LD_* environment variables alphabetically

Michael Kerrisk

Since glibc 2.3.4, setuid/setgid programs ignore LD_DEBUG

==== Changes in man-pages-3.13 =====

Released: 2008-11-07, Bucaramanga

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

pthread_attr_setaffinity_np.3

Michael Kerrisk

New page for pthread_attr_setaffinity_np(3) and
pthread_attr_getaffinity_np(3)

pthread_attr_setschedparam.3

Michael Kerrisk

New page for pthread_attr_setschedparam(3) and
pthread_attr_getschedparam(3)

pthread_attr_setschedpolicy.3

Michael Kerrisk

New page for pthread_attr_setschedpolicy(3) and
pthread_attr_getschedpolicy(3)

pthread_setaffinity_np.3

Michael Kerrisk

New page for pthread_setaffinity_np(3) and pthread_getaffinity_np(3)

pthread_setschedparam.3

Michael Kerrisk

New page for pthread_setschedparam(3) and pthread_getschedparam(3)

pthread_setschedprio.3

Michael Kerrisk

New page for pthread_setschedprio(3)

New and changed links

pthread_attr_getaffinity_np.3

Michael Kerrisk

New link to new pthread_attr_setaffinity_np.3

pthread_attr_getschedparam.3

Michael Kerrisk

New link to
new pthread_attr_setschedparam.3

pthread_attr_getschedpolicy.3

Michael Kerrisk

New link to new pthread_attr_setschedpolicy.3

pthread_getaffinity_np.3

Michael Kerrisk

New link to new pthread_setaffinity_np.3

pthread_getschedparam.3

Michael Kerrisk

New link to new pthread_setschedparam.3

Global changes

pthread_attr_setaffinity_np.3

pthread_getattr_np.3

pthread_setaffinity_np.3

pthread_tryjoin_np.3

Michael Kerrisk

Explain _np suffix

Add text to CONFORMING TO explaining that the "_np"
suffix is because these functions are non-portable.

Changes to individual pages

sched_setaffinity.2

Michael Kerrisk

SEE ALSO: add sched_getcpu(3)

sched_setaffinity.2

Michael Kerrisk

SEE ALSO: Add pthread_setaffinity_np(3)

sched_setaffinity.2

Michael Kerrisk

Clarify EINVAL error for cpusetsize < kernel mask size

For sched_setaffinity(), the

EINVAL error that occurs

if 'cpusetsize' is smaller than the kernel CPU set size only occurs with kernels before 2.6.9.

vfork.2

Michael Kerrisk

Child holds parent's memory until execve() or *termination*

The page was phrased in a few places to describe the child as holding the parent's memory until the child does an execve(2) or an _exit(2). The latter case should really be the more general process termination (i.e., either _exit(2) or abnormal termination).

clock_getres.3

Michael Kerrisk

CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID not settable

According to POSIX.1-2001, the CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID clocks should be settable, but currently they are not.

pthread_attr_setstacksize.3

Michael Kerrisk, after a report by Karsten Weiss

EINVAL occurs on some systems if stacksize != page-size

On MacOS X at least, pthread_attr_setstacksize(3) can fail with EINVAL if 'stacksize' is not a multiple of the system page size. Best to mention this so as to aid people writing portable programs.

pthread_create.3

Karsten Weiss

Fix bug in EXAMPLE program

The calloc() line should read like this instead:

```
tinfo = calloc(num_threads, sizeof(struct thread_info));
```

pthread_exit.3

Michael Kerrisk

BUGS: thread group with a dead leader and stop signals

Document the bug that can occur when a stop signal is sent to a thread group whose leader has terminated.

<http://thread.gmane.org/gmane.linux.kernel/611611>

<http://marc.info/?l=linux-kernel&m=122525468300823&w=2>

resolver.3

Michael Kerrisk

Fix prototype of dn_expand()

The 4th argument is "char *", not "unsigned char *".

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504708>

epoll.7

Michael Kerrisk

Fix error handling after accept() in example code

Simply continuing after an error is in most cases wrong,
and can lead to infinite loops (e.g., for EMFILE).

So handle an error by terminating.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504202>

epoll.7

Michael Kerrisk

Add error handling for epoll_wait() call in example code

epoll.7

Michael Kerrisk

Improve example code

Fill in some gaps in example code (variable declarations,
adding listening socket to epoll set).

Give variables more meaningful names.

Other minor changes.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504202>

iso_8859-7.7

Lefteris Dimitroulakis

Add characters for Drachma and Greek Ypogegrammeni

Lines for these two characters were added in the previous patch,
but the actual characters were not included in

the 4th column

of the table. This fixes that.

pthread.7

Michael Kerrisk

Add a section describing thread IDs

In particular, note that in each pthreads function that takes
a thread ID argument, that ID by definition refers to a thread
in the same process as the caller.

==== Changes in man-pages-3.14 =====

Released: 2008-11-25, Bucaramanga

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

CPU_SET.3

Michael Kerrisk

New page documenting CPU_* macros

This page contains material moved out of sched_setscheduler(2).

It overwrites a previously existing link file with the same name.

Michael Kerrisk

Add description of macros for dynamically allocated CPU sets

Add descriptions of CPU_ALLOC(), CPU_ALLOC_SIZE(), CPU_FREE(), CPU_SET_S(), CPU_CLR_S(), CPU_ISSET_S(), CPU_ZERO_S(), CPU_COUNT_S(), CPU_AND_S(), CPU_OR_S(), CPU_XOR_S(), and CPU_EQUAL_S().

Michael Kerrisk

Add documentation of CPU_COUNT()

Michael Kerrisk

Add description

of CPU_AND(), CPU_OR, CPU_XOR(), and CPU_EQUAL()

Plus a few other small clean-ups of the text

Michael Kerrisk

Various improvements in DESCRIPTION

After review comments by Bert Wesarg:

- * Explain that `cpu_set_t` is a bitset, but should be considered opaque.
- * A CPU set can be duplicated with `memset()`.
- * Size of a CPU set is rounded up to size of long.
- * `CPU_SETSIZE` is in bits, but the `setsize` argument is in bytes.

Michael Kerrisk

Document `CPU_ALLOC()/CPU_ALLOC_SIZE()` bug

These macros return twice what they should because of thinko in glibc 2.8 and earlier. The bug is fixed for glibc 2.9.

http://sourceware.org/bugzilla/show_bug.cgi?id=7029

Michael Kerrisk

NOTES: Discuss use of types in "prototypes" for these macros

The SYNOPSIS shows types for arguments and return values, but these are really just suggestions:

since the interfaces are

macros, the compiler won't catch all violations of the "type rules". Warn the reader of this.

`pthread_attr_setinheritsched.3`

Michael Kerrisk

New page for `pthread_attr_setinheritsched(3)` and `pthread_attr_getinheritsched(3)`

`pthread_cancel.3`

Michael Kerrisk

New page for `pthread_cancel(3)`

`pthread_cleanup_push.3`

Michael Kerrisk

New page for `pthread_cleanup_push(3)` and `pthread_cleanup_pop(3)`

`pthread_setcancelstate.3`

Michael Kerrisk

New page for `pthread_setcancelstate(3)` and `pthread_setcanceltype(3)`

`pthread_testcancel.3`

Michael Kerrisk

New page for `pthread_testcancel(3)`

Newly documented interfaces in existing pages

clone.2

Jens Axboe

Document CLONE_IO (new in Linux 2.6.25)

Some text also by mtk.

Michael Kerrisk

Document CLONE_NEWNET

Michael Kerrisk

Document CLONE_NEWUTS (new
in Linux 2.6.19)

Michael Kerrisk

Document CLONE_NEWIPC flag (new in Linux 2.6.19)

Michael Kerrisk

Document CLONE_NEWPID flag (new in Linux 2.6.24)

mmap.2

Michael Kerrisk

Document MAP_STACK flag (new in Linux 2.6.27)

arp.7

Michael Kerrisk

Document /proc file retrans_time_ms (new in Linux 2.6.12)

Michael Kerrisk

Document /proc file base_reachable_time_ms (new in Linux 2.6.12)

icmp.7

Michael Kerrisk

Document icmp_ignore_bogus_error_responses (new in Linux 2.2)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document icmp_ratelimit and icmp_ratemask (new in Linux 2.4.10)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document icmp_echo_ignore_broadcasts (new in Linux 2.6.12)

Text taken from Documentation/networking/ip-sysctl.txt

tcp.7

Michael Kerrisk

Document /proc file tcp_slow_start_after_idle (new
in Linux 2.6.18)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_base_mss (new in Linux 2.6.17)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_frto_response (new in Linux 2.6.22)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_moderate_rcvbuf (new in Linux 2.4.17/2.6.7)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_congestion_control (new in Linux 2.4.13)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_no_metrics_save (new in Linux 2.6.6)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_mtu_probing (new in Linux 2.6.17)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_dma_copybreak (new in Linux 2.6.24)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_tso_win_divisor (new in Linux 2.6.9)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_allowed_congestion_control (new in Linux 2.4.20)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_workaround_signed_windows (new in Linux 2.6.26)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_available_congestion_control (new in Linux 2.4.20)

Text taken from Documentation/networking/ip-sysctl.txt

Michael Kerrisk

Document /proc file tcp_abc (new in Linux 2.6.15)

Text taken from Documentation/networking/ip-sysctl.txt

udp.7

Michael

Kerrisk

Document /proc files udp_mem, udp_rmem_min, and udp_wmem_min

All of these are new in Linux 2.6.25

New and changed links

CPU_ALLOC.3

CPU_ALLOC_SIZE.3

CPU_AND.3

CPU_AND_S.3

CPU_CLR_S.3

CPU_COUNT.3

CPU_COUNT_S.3

CPU_EQUAL.3

CPU_EQUAL_S.3

CPU_FREE.3
CPU_ISSET_S.3
CPU_OR.3
CPU_OR_S.3
CPU_SET_S.3
CPU_XOR.3
CPU_XOR_S.3
CPU_ZERO_S.3

Michael Kerrisk

New link to new CPU_SET.3

CPU_CLR.3
CPU_ISSET.3
CPU_ZERO.3

Michael Kerrisk

Update links to point to CPU_SET.3

The documentation of the CPU_* macros migrated to a new location: CPU_SET.3.

pthread_attr_getinheritsched.3

Michael Kerrisk

New link to new pthread_attr_setinheritsched.3

pthread_cleanup_pop.3

Michael Kerrisk

New link to new pthread_cleanup_push.3

pthread_setcanceltype.3

Michael Kerrisk

New link to new pthread_setcancelstate.3

Global changes

clone.2
mount.2
unshare.2
proc.5
path_resolution.7

Michael Kerrisk

Global fix: s/namespace/mount-point namespace/, as appropriate

In recent times, a number of other namespace flags have been added to clone(2). As such, it is no longer clear to use the generic term "namespace" to refer to the particular namespace controlled by CLONE_NEWNS; instead, use the term "mount-point namespace".

Michael Kerrisk

Global fix: s/mount-point namespace/mount namespace/
This is more consistent with the term "mounts namespace"
used in the 2008 ACM SIGOPS paper, "Virtual servers
and checkpoint/restart in mainstream Linux".
(I avoided the "s", because using the plural strikes me
as klunky English, and anyway we don't talk about
the "PIDs namespace" or the "networks namespace", etc..)

connect.2
listen.2
send.2
uname.2
cmsg.3
proc.5
arp.7
ddp.7
icmp.7
ip.7
raw.7
socket.7
tcp.7
udp.7

Michael
Kerrisk

Global fix: eliminate mention of the obsolete sysctl(2) interface
Many pages still mention use of the obsolete sysctl(2) system
call, or used the term "sysctls"; rewrite these mentions to
instead be in terms of /proc interfaces.

fcntl.2
signal.2
mbsnrtowcs.3
mbsrtowcs.3
mbtowc.3
wctomb.3
wcsnrtombs.3
wcsrtombs.3
wctomb.3

Michael Kerrisk

Global fix: s/multi-thread/multithread/

getdents.2
pthread_attr_init.3
pthread_create.3
pthread_getattr_np.3
pthread_setaffinity_np.3
pthread_setschedparam.3
pthread_tryjoin_np.3

Michael Kerrisk

Use consistent error-handling function names

Many older pages use a `handle_error()` macro to do simple error handling from system and library function calls.

Switch these pages to do similar.

Changes to individual pages

time.1

Michael Kerrisk

Note that some shells have a 'time' built-in command

Therefore, to access the functionality described on this page, it may be necessary to specify the full pathname.

clone.2

Michael Kerrisk

Place list of `CLONE_*` flags in alphabetical order
(No content changes.)

fsync.2

Michael Kerrisk

Update feature test macro requirements for `fsync()`
Since glibc 2.8, the `fsync()` declaration is also exposed if
`_POSIX_C_SOURCE >= 200112L`

sched_setaffinity.2

Michael Kerrisk

Add note on system-imposed restrictions on CPUs actually used
After Loïc Dommage's suggestion for `pthread_setaffinity_np(3)`, add similar text to this page noting that the system silently limits the set of CPUs on which the process actually runs to the set of CPUs physically present and the limits imposed by `cpuset(7)`.

sched_setaffinity.2

Michael Kerrisk

Removed discussion of `CPU_*` macros()
These macros are now moving

to a separate page.

Michael Kerrisk

Refer reader to `pthread_setaffinity_np(3)`
`pthread_setaffinity_np()` is preferable for setting thread CPU affinity if using the POSIX threads API.

sysctl.2

Michael Kerrisk

Add prominent warning against using this system call
This was already stated under NOTES, but make it even more prominent by adding a sentence at the start of the DESCRIPTION.

uname.2

Michael Kerrisk

Add C comments describing fields in utsname structure

atan2.3

Stefano Teso

Fix description of range of function value return

The range is not $[-\pi/2, \pi/2]$, but $[-\pi, \pi]$.

(mtk: This error was reported by Nicolas François, and should have been fixed in 3.11, but somewhere along the way, the fix got lost.)

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=506299>

bindresvport.3

Michael Kerrisk

Since glibc 2.8, EPNOSUPPORT error is now EAFNOSUPPORT

Glibc switched to using a POSIX-specified error code for this error case.

http://bugs.linuxbase.org/show_bug.cgi?id=2375

clock_getres.3

Michael Kerrisk

CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID not settable

According to POSIX.1-2001, the CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID clocks should be settable, but currently they are not.

getgrnam.3

Michael Kerrisk

Clarify and add more detail in RETURN VALUE description

The page was a bit fuzzy in describing the return values for various cases. In particular, it needed to be more explicit in describing what happens for the "not found" case.

This is an analogous change to the change for getpwnam.3, made after Andreas Henriksson's report.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504787>

Michael Kerrisk

Rename arguments to `getgrnam_r()` and `getgrgid_r()`

`s/gbuf/grp/` and `s/gbufp/result/`, for consistency with POSIX.1 argument names.

Michael Kerrisk

Clarify RETURN VALUE description

The page was a bit fuzzy in describing the return values for various cases. In particular, it needed to be more explicit in describing what happens for the "not found" case.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504708>

`getpwnam.3`

Michael Kerrisk

Rename arguments to `getpwnam_r()` and `getpwuid_r()`
`s/pwbuf/pwd/` and `s/pwbufp/result/`, for consistency with POSIX.1 argument names.

Michael Kerrisk

Clarify and add more detail in RETURN VALUE description

The page was a bit fuzzy in describing the return values for various cases. In particular, it needed to be more explicit in describing what happens for the "not found" case.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504787>

Michael Kerrisk

Add an EXAMPLE program for `getpwnam_r()`

`inet_ntop.3`

Michael Kerrisk

Rename 'cnt' argument to 'size'

This is consistent with POSIX.1, and also a more sensible name.

Michael Kerrisk

Rework text describing 'size' argument

(After a suggestion by Vegard Nossum.)

Also made a few other small rewordings to in the initial paragraph.

`makecontext.3`

Michael Kerrisk

Add text on use of pointer arguments to `makecontext()`

Passing pointer arguments to `makecontext()` is possible, but only on some architectures, and with no guarantees of portability.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=504699>

`pthread_attr_setaffinity_np.3`

Michael Kerrisk

Various fixes after review by Loïc Dommage

Reviewed-by: Loïc Dommage

pthread_attr_setaffinity_np.3

pthread_setaffinity_np.3

Michael Kerrisk

Update to reflect new location of CPU_*() documentation

The CPU_*() macros are now documented in CPU_SET.3;

update to reflect that fact.

Michael Kerrisk

Remove redundant text relating to CPU sets

Information about CPU_SETSIZE can be found in CPU_SET.3, so

remove discussion of it here.

pthread_attr_setschedparam.3

pthread_setschedparam.3

Michael Kerrisk

Remove text saying that only sched_priority is required by POSIX.1

Loïc Dommage points out that if a system implements

SCHED_SPORADIC (which Linux does not), then other

fields are also specified in sched_param. The simple

solution is just to remove that phrase from the man

page.

pthread_cancel.3

pthread_detach.3

pthread_join.3

pthread_setaffinity_np.3

Michael Kerrisk

Make text of ESRCH error consistent

pthread_setaffinity_np.3

Michael Kerrisk

Add

text to EINVAL error mentioning cpuset(7)

Michael Kerrisk

Various improvements after review by Loïc Dommage

Various fix-ups after Loïc's review.

Reviewed-by: Loïc Dommage

pthread_setschedparam.3

Michael Kerrisk

PTHREAD_INHERIT_SCHED is default for inherit scheduler attribute

In EXAMPLE, note that PTHREAD_INHERIT_SCHED is the default for

the inherit scheduler attribute.

syslog.3

Masanari Iida

LOG_KERN messages can't be generated from user processes

Masanari notes that this is an FAQ for logger(1) and that

Solaris and FreeBSD document this point in syslog(3).

The glibc info page also hides this comment in its source:

Internally, there is also LOG_KERN, but LOG_KERN == 0,
which means if you try to use it here, just selects default.

proc.5

Ivana Varekova

Fix reference to kernel source file

Use relative reference

to Documentation/mtrr.txt.

arp.7

Michael Kerrisk

Add kernel version numbers for /proc interfaces

cpuset.7

Michael Kerrisk

SEE ALSO: add CPU_SET(3)

epoll.7

Michael Kerrisk

Note glibc version that added epoll support

icmp.7

Michael Kerrisk

Add kernel version numbers to /proc file descriptions

inotify.7

Vegard Nossum

Fix description of max_user_watches

It seems that inotify(7) is wrong here:

`"/proc/sys/fs/inotify/max_user_watches`

This specifies a limit on the number of watches that can be
associated with each inotify instance."

On my system, the default value for this variable is 8192. But I
cannot create more than 8192 watches in total for the same UID
even when they are on different inotify instances. So I suggest
to rephrase this as: "This specifies an upper limit on the
number of watches that can be created

per real user ID."

ip.7

Michael Kerrisk

Reorder socket options alphabetically

Michael Kerrisk

Added kernel version numbers for IP_* socket options

Michael Kerrisk

Relocate kernel version information for IP_PMTUDISC_PROBE

Michael Kerrisk

Add kernel version numbers for /proc/sys/net/ipv4/ip_* files

Michael Kerrisk

Remove mention of kernel header from description of IP_RECVERR

Looks like glibc has had this definition since about version 2.1.

Michael Kerrisk

Relocate kernel version information for ip_mreqn structure

Michael Kerrisk

Relocate info about Linux-specific sockopts to NOTES

Also add some source comments about non-standard Linux-specific options that are not yet documented.

netlink.7

Vegard Nossum

Fix incorrect variable names in example code

s/snl/sa/ * 2

pthread.7

Michael Kerrisk

Add section on cancellation points

This section includes a list of the functions that must and may be cancellation points.

Michael Kerrisk

Rework, and fix small error in, thread-safe function list

Integrate the changes that occurred in POSIX.1-2008 into the main list (to be consistent with the list, elsewhere on this page, of functions that are cancellation points).

Also, fix an error that said that strerror() was added to the list in POSIX.1-2008. It was strsignal() that was added. (strerror() was already in the list in POSIX.1-2001.)

Michael Kerrisk

Tweak text on sigpause() cancellation point

In POSIX.1-2008, this function moves from the "must be" to the "may be" list.

Michael Kerrisk

Add ref to signal(7) for further info on use of real-time signals

signal(7) provides some further details on the use of real-time signals by the two Linux threading

implementations.

Michael Kerrisk

SEE ALSO: add pthread_attr_init() and pthread_cancel()

tcp.7

Michael Kerrisk

Update description of tcp_rmem defaults for Linux 2.6

Michael Kerrisk

Add kernel version numbers for TCP_* socket options

Note kernel version were each socket option first appeared.

Michael Kerrisk

The tcp_bic* proc files disappeared in Linux 2.6.13

Michael Kerrisk

tcp_vegas_cong_avoid disappeared in Linux 2.6.13

Michael Kerrisk

Add mention of RFC 4138 for 'tcp_frto' /proc file

Michael Kerrisk

Remove mention of /proc in VERSIONS

This information is not indicated for each /proc interface

Michael Kerrisk

Clarify that tcp_mem measures in units of the system page size

Michael Kerrisk

Update tcp_frto description for 2.6.22 changes

Linux 2.6.22 added a mode value 2 ("Enable SACK-enhanced F-RTO if flow uses SACK").

Michael

Kerrisk

Fix alphabetical order in /proc file list

A few entries were slightly out of order.

Michael Kerrisk

Remove obsolete statement about /proc from VERSIONS

Much of the text has been updated to 2.6.27 or so,
so this statement no longer applies.

Michael Kerrisk

Add kernel version numbers for each /proc interface

Note kernel version where each /proc interface first appeared

Michael Kerrisk

tcp_westwood /proc file disappeared in Linux 2.6.13

Michael Kerrisk

Update description of tcp_wmem defaults for Linux 2.6

==== Changes in man-pages-3.15 =====

Released: 2008-12-05, Bucaramanga

Contributors

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Apologies if I missed anyone!

New and rewritten pages

makedev.3

Michael Kerrisk

New page for makedev(), major(), and minor() macros

pthread_cleanup_push_defer_np.3

Michael Kerrisk

New page for pthread_cleanup_push_defer_np(3) and
pthread_cleanup_pop_restore_np(3)

Newly documented interfaces in existing pages

accept.2

Michael Kerrisk

Document accept4() system call, new in Linux 2.6.28

fmemopen.3

Petr Baudis

Add description of open_wmemstream(3)

tcp.7

Michael Kerrisk

Document MSG_TRUNC flag for TCP sockets

New

and changed links

accept4.2

Michael Kerrisk

New link to accept.2

accept.2 now documents the new accept4() system call.

open_wmemstream.3

Petr Baudis

New link to fmemopen.3

fmemopen.3 now documents open_wmemstream().

pthread_cleanup_pop_restore_np.3

Michael Kerrisk

New link to new pthread_cleanup_push_defer_np.3

Global changes

accept.2

listen.2

recv.2

getpeername.2

getsockname.2

shutdown.2

socketpair.2

Michael Kerrisk

Global fix: SEE ALSO: add socket(7)

bind.2

rcmd.3

capabilities.7

ip.7

Michael Kerrisk

Global fix: s/reserved port/privileged port/

Some pages used one term, some pages the other term;
make some consistency.

connect.2

getpeername.2

getsockname.2

Michael Kerrisk

Use consistent argument names

Most other sockets pages are using the names 'addr'
and 'addrlen'; make these pages do the same.

getpeername.2

getsockname.2

getsockopt.2

recv.2

send.2

shutdown.2

socketatmark.3

socket.7

udplite.7

Michael Kerrisk

SYNOPSIS: Rename socket file descriptor argument to 'sockfd'

Many sockets man pages use the name 'sockfd' already.

For consistency, changes the others to do so as well.

gnu_dev_major.3

gnu_dev_makedev.3

gnu_dev_minor.3

major.3

minor.3

Michael Kerrisk

New links to new makedev(3) page

Changes to individual pages

_exit.2

Michael Kerrisk

Since glibc 2.3, the exit() wrapper function invokes exit_group(2)

This information is useful to users of strace(1).

accept.2

Michael Kerrisk

Clarify details when returned address is truncated

If the returned address is truncated, the 'addrlen' argument indicates the actual size of the address, rather than a count of the number of bytes in the truncated buffer.

Also clarify that

if 'addr' argument is NULL, then 'addrlen'

should be unused, and should also be NULL.

Michael Kerrisk

Reorder ERRORS list

Some errors were listed under a separate "may" heading.

There's probably no real need to do this; integrate those errors into the main list.

exit_group.2

Michael Kerrisk

Note that since glibc 2.3, `exit(2)` invokes `exit_group()`

futex.2

Michael Kerrisk

Mention that glibc provides no wrapper function for `futex()`

get_thread_area.2

Michael Kerrisk

Note that glibc provides no wrapper for this system call

getdomainname.2

Michael Kerrisk

Substantial rewrite

Expand description of `setdomainname()` and `getdomainname()`.

Note that `getdomainname()` is implemented as a library function in glibc.

Note limits on size of domain name.

Reorganize ERRORS list.

gethostname.2

Michael Kerrisk

Various parts rewritten

Write a paragraph describing `sethostname()`.

Clarify differences between glibc's `gethostbyname()` and the kernel `gethostbyname()` system calls.

gethostname.2

Michael Kerrisk

Note that `HOST_NAME_MAX` is 64 on Linux

Also note that in pre-1.0 days, the limit on hostnames was 8 bytes.

getpeername.2

Michael Kerrisk

Note that returned address may be truncated if buffer is too small

getsid.2

Michael Kerrisk

Simplified version information and moved to a new `VERSIONS` section

getsockname.2

Michael Kerrisk

Note that returned address is truncated if buffer is too small

mknod.2

Michael Kerrisk

Refer reader to `makedev(3)` to build a device ID

mmap.2

Michael Kerrisk

Loosen language around how 'addr' hint is interpreted

Mel Gorman reported that in Linux 2.6.27, 'addr' is rounded down to a page boundary.

Before kernel 2.6.26,

if 'addr' was taken as a hint, it was

rounded up to the next page boundary. Since Linux 2.6.24, it is rounded down. Therefore, loosen the description of this point to say that the address is rounded to "a nearby page boundary".

open.2

Michael Kerrisk

EFBIG error is now EOVERFLOW (since Linux 2.6.24)

When a 32-bit app opens a file whose size is too big to be represented in 31-bits, POSIX.1 specifies the error EOVERFLOW.

Linux used to give EFBIG for this case, but 2.6.24 fixed this.

Also, add some text to describe the error scenario in more detail.

pread.2

Michael Kerrisk

Note that glibc emulation for these calls uses lseek(2)

(This makes it clearer that the emulated calls are not atomic.)

recv.2

send.2

Michael Kerrisk

Make names of "address" and "address length" args more consistent

Make the names of these arguments

more consistent with other

sockets man pages.

recv.2

Michael Kerrisk

Clarify details when returned address is truncated

If the recvfrom() returned address is truncated, the 'fromlen' argument indicates the actual size of the address, rather than a count of the number of bytes in the truncated buffer.

Also clarify that the 'from' argument can be NULL, in which case 'fromlen' should be unused, and should also be NULL.

Michael Kerrisk

Internet datagram and netlink sockets support MSG_TRUNC for recv(2)

Internet datagram (since Linux 2.4.27/2.6.8),
and netlink (since Linux 2.6.22) sockets support
the MSG_TRUNC flag for recv(2).

select.2

Michael Kerrisk

Rewrote text describing feature test macros requirement for pselect()

select_tut.2

Michael Kerrisk

Fix SHUT_FD* macros in example program

Add "do { } while (0)"

set_thread_area.2

Michael Kerrisk

Note that glibc provides no wrapper for this system call

setfsuid.2

setfsuid.2

Michael Kerrisk

Simplify version information and move to a VERSIONS section

setsid.2

Michael Kerrisk

Rework RETURN VALUE section; add an ERRORS section

setup.2

Michael Kerrisk

Relocate some CONFORMING TO text to VERSIONS and NOTES

stat.2

Michael Kerrisk

Document EOVERFLOW error

Michael Kerrisk

Refer reader to major() and minor() to decompose a device ID

syscalls.2

Michael Kerrisk

Fix version numbers for a few system calls

Some 2.6 system calls were wrongly mentioned as also being
backported into a 2.4.x kernel.

uname.2

Michael Kerrisk

DESCRIPTION: Point reader at NOTES for further info on field lengths

atan.3

Andries E. Brouwer

Fix return value description

The correct range for the return value is $[-\pi/2, \pi/2]$.

(mtk's fix in

the last change to the return value text was

a botch-up of a (correct) suggestion by Nicolas François.)

atexit.3

Michael Kerrisk

atexit() and on_exit(3) register functions on the same list

Michael Kerrisk

Terminating registered function using longjmp() is undefined

According to POSIX.1, using longjmp() to terminate execution of a function registered using atexit() produces undefined results.

Michael Kerrisk

Calling exit(3) more than once produces undefined results

If an exit handler itself calls exit(3), the results are undefined (see the POSIX.1-2001 specification of exit(3)).

Michael Kerrisk

The same exit handler may be registered multiple times

Michael Kerrisk

Calling _exit(2) terminates processing of exit handlers

Michael Kerrisk

Terminating registered function using longjmp() is undefined

According to POSIX.1, using longjmp() to terminate execution of a function registered using atexit() produces undefined results.

bindresvport.3

Mats Wichmann

SYNOPSIS: $s^{\wedge}*\backslash*/^*$ in prototype

Michael Kerrisk

Fix errors regarding port used, plus other rewrites

Glibc's bindresvport() takes no notice of `sin->sin_port`: it always returns an arbitrary reserved port in the anonymous range (512-1023). (Reported by Mats Wichmann.)

Also:

- * Add EADDRINUSE and EACCES errors.
- * Mention use of getsockname(2).
- * Other minor rewrites and reorderings of the text.
- * Explicitly note that glib's bindresvport() ignores `sin->sin_port`.
- * Change license There's now virtually no text remaining from the 1.70 version of this page.

Reviewed-by: Mats Wichmann

Reviewed-by: Petr Baudis

dlopen.3

Petr Baudis

Describe confusing dladdr() behavior

dladdr()

will act unexpectedly if called from non-pic code on a
compile-time-generated function pointer.

fmemopen.3

Michael Kerrisk

Add VERSIONS section

Petr Baudis

SEE OPEN: Add fopencookie(3)

fopencookie(3) is used to implement fmemopen().

fopen.3

Petr Baudis

SEE ALSO: Add fmemopen(3) and fopencookie(3)

fopencookie.3

Petr Baudis

fopencookie() needs `_GNU_SOURCE` feature test macro

getaddrinfo.3

Petr Baudis

Document results ordering and `/etc/gai.conf`

This patch documents the order of the `getaddrinfo(3)` results (RFC 3484), how should the application deal with that, mentions the extremely common cause of having multiple results per query (both IPv4 and IPv6 addresses available) and mentions `/etc/gai.conf`.

(mtk: Minor tweaks, and note `glibc` version for `/etc/gai.conf`)

isatty.3

Michael Kerrisk

Complete rewrite of this page,
with rather more detail

memmem.3

Michael Kerrisk

Remove sentence saying that `libc 5.0.9` is still widely used

That was a **long** time ago.

on_exit.3

Michael Kerrisk

Document handling of registrations on `fork(2)` and `execve(2)`

Treatment in these cases is the same as for `atexit(3)`.

Michael Kerrisk

Arg given to registered function is status from *last* call to exit()

It's a subtle point, but if a registered function itself calls exit(3), then subsequent functions that were registered with on_exit(3) will see the exit status given to the more recent exit(3) call.

Michael Kerrisk

Note that same function may be registered multiple times

setlocale.3

locale.7

Michael Kerrisk

Clean up the description of LANGUAGE environment variable

Clean up the \$LANGUAGE description, by removing bogus comments from setlocale(3) and expanding the mention

in locale(7).

Maybe you will decide that a more detailed description should be left to the gettext(3) documentation, but I actually care about the invisible part of the patch more since the comments have put me off the track initially (\$LANGUAGE has nothing to do with setlocale(3) and is completely isolated to gettext, as obvious from the glibc sources).

proc.5

Michael Kerrisk

/proc/stat: s/minor/disk_idx/ in description of /proc/stat

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=225619>

capabilities.7

Drake Wilson

Various minor fixes as per Debian bug 471029

The relevant pieces of

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=471029> are:

- Delete duplicate subentry for KEYCTL_CHOWN/KEYCTL_SETPERM operations in the CAP_SYS_ADMIN entry. (It feels like that capability entry should be converted

to a list, but I've

left it in semicolon-delimited form for now.)

- Remove text about ENFILE from the text about the /proc/sys/fs/file-max limit in the CAP_SYS_ADMIN entry, since this is already described in the man pages for the relevant ofile-creating system calls.

- Correct or clarify a few other bits of grammar and such; see the diff file itself for details.

socket.7

Michael Kerrisk

SEE ALSO: add tcp(7) and udp(7)

tcp.7

Michael Kerrisk

Relocate out-of-band data discussion

Move to a new subsection entitled "Sockets API".

Michael Kerrisk

Note that MSG_PEEK can be used on out-of-band data

time.7

Michael Kerrisk

SEE ALSO: add clock_gettime(3)

unix.7

Michael Kerrisk

Unix domain sockets don't support the recv() MSG_TRUNC flag

Michael Kerrisk

Retitled subsection "(Un)supported features"

to "Sockets API"

This is consistent with the recent change in tcp(7).

===== Changes in man-pages-3.16 =====

Released: 2009-01-13, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

pthread_getcpuclockid.3

Michael Kerrisk

New page documenting pthread_getcpuclockid(3)

libc.7

Michael Kerrisk

New page giving brief overview of C libraries on Linux

rtld-audit.7

Michael Kerrisk

New page documenting dynamic linker auditing API

Newly documented interfaces in existing pages

ld.so.8

Petr Baudis

Document LD_AUDIT

Petr Baudis

Document LD_POINTER_GUARD

New and

changed links

gethostid.2

Michael Kerrisk

New link to new page location in Section 3

sethostid.2

Michael Kerrisk

Change link to point to new page location in Section 3

sethostid.3

Michael Kerrisk

New link to relocated page in Section 3

glibc.7

Michael Kerrisk

New link to new libc.7

Global changes

syscalls.2

feature_test_macros.7

standards.7

Michael Kerrisk

SEE ALSO: add libc(7)

dlopen.3

ld.so.8

Michael Kerrisk

SEE ALSO: add rtdl-audit(7)

Changes to individual pages

gethostid.2

Michael Kerrisk

Move to Section 3

The interfaces documented in this page are purely glibc.

syscalls.2

Michael Kerrisk

Kernel 2.6.28 adds accept4()

clock_getres.3

Michael Kerrisk

SEE ALSO: Add pthread_getcpuclockid(3)

fmemopen.3

Michael Kerrisk

Fix VERSIONS information

gethostid.3

Michael Kerrisk

Before version 2.2, glibc stored the host ID in /var/adm/hostid

Also: rewrite some text describing the /etc/hostid file, so that this location is referred to just once on the page.

Michael Kerrisk

RETURN VALUE: describe return value of sethostid()

Michael Kerrisk

Added BUGS section noting that ID can't be guaranteed to be unique

Michael Kerrisk

Added ERRORS section describing errors for sethostid()

Michael Kerrisk

Update section number to reflect relocation into Section 3

printf.3

Michael Kerrisk

Source and destination buffers may not overlap for `*s*`printf()

http://sourceware.org/bugzilla/show_bug.cgi?id=7075

Some existing code relies on techniques like the following to append text to a buffer:

```
$ cat s.c
#include <stdio.h>
char buf[80] = "not ";
main()
{
    sprintf(buf,
"%sfail", buf);
    puts(buf);
    return 0;
}

$ cc s.c
$ ./a.out
not fail
```

However, the standards say the results are undefined if source and destination buffers overlap, and with suitable compiler options, recent changes can cause unexpected results:

```
$ cc -v 2>&1 | grep gcc
gcc version 4.3.1 20080507 (prerelease) [gcc-4_3-branch revision 135036] (SUSE Linux)
$ cc -D_FORTIFY_SOURCE -O2 s.c
$ ./a.out
fail
```

readdir.3

Michael Kerrisk

Rewrite text describing 'dirent' fields standardized in POSIX.1

Michael Kerrisk

Clarify text for return value/errno setting for end-of-stream case

nscd.8

Petr Baudis

Correct NOTES section on reloading configuration files

It behaved this way at least since

"Sun Oct 18 15:02:11 1998 +0000",

some four months after including the nscd implementation in glibc. But there does seem to be a short window between glibc-2.1 and glibc-2.1.3 when nscd -i was not available, I don't think it's worth muddling the point of the page with that, though.

Released: 2009-01-19, Hobart

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Apologies if I missed
anyone!

New and rewritten pages

endian.3

Michael Kerrisk

New page documenting byte order conversion functions

Document functions (new in glibc 2.9) for conversion between host byte order and big-/little- endian byte order:

htobe16(), htole16(), be16toh(), le16toh(),
htobe32(), htole32(), be32toh(), le32toh(),
htobe64(), htole64(), be64toh(), le64toh()

getifaddrs.3

Petr Baudis

New page documenting getifaddrs(3) and freeifaddrs(3)

Many edits and changes of Petr's initial draft by mtk

cp1251.7

Lefteris Dimitroulakis

New page documenting CP 1251 (Windows Cyrillic) character set

iso-8859-10.7

Lefteris Dimitroulakis

New page documenting ISO 8859-10 character set

iso_8859-13.7

Lefteris Dimitroulakis

New page documenting ISO 8859-13 character set

iso_8859-14.7

Lefteris Dimitroulakis

New page documenting ISO 8859-14 character
set

iso_8859-3.7

Lefteris Dimitroulakis

New page documenting ISO 8859-3 character set

iso_8859-5.7

Lefteris Dimitroulakis

New page documenting ISO 8859-5 character set

iso_8859-8.7

Lefteris Dimitroulakis

New page documenting ISO 8859-8 character set

koi8-u.7

Lefteris Dimitroulakis

New page documenting KOI8-U character set

Newly documented interfaces in existing pages

epoll.7

Michael Kerrisk

Document /proc interfaces for limiting kernel memory usage

Document the following /proc files that were added in

Linux 2.6.28:

/proc/sys/fs/epoll/max_user_instances

/proc/sys/fs/epoll/max_user_watches

netdevice.7

Michael Kerrisk

Document recently added interface flags

IFF_LOWER_UP (since Linux 2.6.17)

IFF_DORMANT (since Linux 2.6.17)

IFF_ECHO (since Linux 2.6.25)

Documentation

taken from comments in <linux/if.h>

New and changed links

freeifaddrs.3

Michael Kerrisk

New link to new getifaddrs.3

htobe16.3

htole16.3

be16toh.3

le16toh.3

htobe32.3

htole32.3

be32toh.3

le32toh.3

htobe64.3

htole64.3

be64toh.3

le64toh.3

Michael Kerrisk

New links to new endian.3

iso-8859-10.7

iso_8859_10.7

latin6.7

Michael Kerrisk

New links to new iso_8859-10.7

iso-8859-13.7

iso_8859_13.7

latin7.7

Michael Kerrisk

New links to new iso_8859-13.7

iso-8859-14.7

iso_8859_14.7

latin8.7

Michael Kerrisk

New links to new iso_8859-14.7

iso-8859-3.7

iso_8859_3.7

latin3.7

Michael Kerrisk

New links to new iso_8859-3.7

iso-8859-5.7

iso_8859_5.7

Michael Kerrisk

New links to new iso_8859-5.7

iso-8859-8.7

iso_8859_8.7

Michael Kerrisk

New links to new iso_8859-8.7

Changes to individual pages

bind.2

Michael Kerrisk

SEE ALSO: Add getifaddrs(3)

epoll_create.2

Michael Kerrisk

Document EMFILE error

This error is encountered when the limit imposed by
/proc/sys/fs/epoll/max_user_instances is encountered.

Michael Kerrisk

Clarify distinction between epoll instance and epoll file descriptor

Reword so that the notion of an epoll instance is made clear,
and made distinct from the notion of an epoll file descriptor.
Some other minor rewordings also.

epoll_ctl.2

Michael Kerrisk

Reordered parts of the text

Michael Kerrisk

Introduce notion of epoll instance

Introduce notion of epoll instance as distinct from
epoll file descriptor. Plus other wording clean-ups.

Michael Kerrisk

Document ENOSPC error (new in Linux 2.6.28)

This error results when the limit imposed by
/proc/sys/fs/epoll/max_user_watches is encountered.

epoll_wait.2

Michael Kerrisk

Introduce

the notion of an epoll instance into text

getdents.2

Michael Kerrisk

Before kernel < 2.6.4, 'd_type' was effectively always DT_UNKNOWN

gethostid.2

Michael Kerrisk

Rename file (was misnamed gethostd.2 in previous release)

getsockname.2

Michael Kerrisk

SEE ALSO: Add getifaddrs(3)

signalfd.2

Michael Kerrisk

Fix description of fork() semantics

The page text described the semantics of the initial implementation of signalfd(). These were changed early on, but the man page wasn't updated.

byteorder.3

Michael Kerrisk

SEE ALSO: add endian(3)

longjmp.3

Michael Kerrisk

Clarify wording re saving/restoring signal mask

Michael Kerrisk

siglongjmp() restores signal mask iff 'savesigs' was non-zero

Note that siglongjmp() restores signal mask if, and only if, 'savesigs' argument of sigsetjmp() was non-zero. (Previous text omitted the "and only if".)

memccpy.3

Michael Kerrisk

Fix CONFORMING TO: s/C99/POSIX.1-2001/

Michael Kerrisk

If the memory areas overlap, the results are undefined

sethostid.3

Michael Kerrisk

Rename file (was misnamed sethostd.3 in previous release)

setjmp.3

Michael Kerrisk

Clarify wording re saving/restoring signal mask

Michael Kerrisk

Clarify when setjmp() provides BSD vs System V signal mask semantics

strsep.3

Michael Kerrisk

BUGS: explicitly list problems afflicting strsep()

Previously, the page said this function suffered the same problems as strtok(), but in fact strsep() doesn't suffer from all of the same problems as strtok(), so explicitly list just the problems of strsep() in the strsep.3 page.

proc.5

Michael Kerrisk

Add pointer to epoll(7) for description of epoll /proc files

epoll.7

Michael Kerrisk

Various wording changes to improve clarity and consistency

==== Changes in man-pages-3.18 =====

Released: 2009-02-10, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

armSCII-8.7

Lefteris Dimitroulakis

New page documenting ArmSCII-8 character set

iso_8859-11.7

Lefteris Dimitroulakis

New page documenting ISO 8859-11 character set

iso_8859-4.7

Lefteris Dimitroulakis

New page documenting ISO 8859-4 character set

iso_8859-6.7

Lefteris Dimitroulakis

New page describing ISO 8859-6 character set

pthread_kill.3

Michael Kerrisk

New page documenting pthread_kill(3)

pthread_kill_other_threads_np.3

Michael Kerrisk

New page documenting pthread_kill_other_threads_np(3)

pthread_sigmask.3

Michael Kerrisk

New page documenting pthread_sigmask(3)

Newly documented interfaces in existing pages

clock_getres.3

Michael Kerrisk

Document CLOCK_MONOTONIC_RAW, new in 2.6.28

New and changed links

clock_gettime.2

clock_settime.2

clock_getres.3

clock_gettime.3

clock_settime.3

Michael Kerrisk

Update links to
reflect the fact that clock_* pages are now in
Section 2

iso-8859-11.7

iso_8859_11.7

Michael Kerrisk

New links to new iso_8859-11.7

iso-8859-4.7

iso_8859_4.7

latin4.7

Michael Kerrisk

New links to new iso_8859-4.7

iso-8859-6.7

iso_8859_6.7

Michael Kerrisk

New links to new iso_8859-6.7

tis-620.7

Michael Kerrisk

New link to new iso_8859-11.7

Global changes

clock_nanosleep.2

getrusage.2

timerfd_create.2

clock.3

clock_getcpuclockid.3

ftime.3

pthread_create.3

pthread_getcpuclockid.3

pthread_tryjoin_np.3

sem_wait.3

time.7

Michael Kerrisk

Global fix: Fix xrefs to clock_*.? pages to reflect move to section 2

clock_nanosleep.2

execve.2

fork.2
nanosleep.2
sigaction.2
timerfd_create.2
pthread_getcpuclockid.3
ualarm.3
usleep.3
pthreads.7
time.7

Michael Kerrisk

Global fix: s/(3)/(2)/ in section number xrefs for timer_*(*)* API

The POSIX timers API is implemented (mostly) within the kernel, so these interfaces are system calls. Although there are as yet no man pages, when they are added they should be in Section 2, not 3. Therefore fix those pages that currently refer to these interfaces as being in Section 3.

Changes to individual pages

capget.2

Andi Kleen

Add some details and relocate a paragraph

While writing a little program using capset I found the capset manpage quite light on crucial details and I had to resort to RTFS.

This patch improves the points I found unclear and also moves one misplaced paragraph around.

clock_getres.2

Michael Kerrisk

Move page from Section 3 to Section 2

eventfd.2

Michael Kerrisk

glibc eventfd() supports the use of eventfd2() since version 2.9

fork.2

Michael Kerrisk

SEE ALSO: add daemon(3)

getdents.2

Michael Kerrisk

Remove unneeded HAVE_D_TYPE

from example program

Since d_type will always just return DT_UNKNOWN before

kernel 2.6.4, we don't need to use a conditional for determining whether we use this flag.

nanosleep.2

Michael Kerrisk

Relocated misplaced BUGS heading

select_tut.2

Michael Kerrisk

Clean up error checking in example program (no semantic changes)

Michael Kerrisk

Many parts tidied and rewritten

Remove some redundant text, clarify various pieces, tidy example code, etc.

Michael Kerrisk

Bug fixes + rewrites in example program

Sebastien pointed out that the first example program wrongly thinks it can count signals.

Also, some further rewrites by mtk.

socket.2

Michael Kerrisk

BUGS: Remove discussion SOCK_UUCP

As time goes on, this sentence becomes less a piece of humor, and more a puzzle.

stat.2

Michael Kerrisk

Note

that open(O_NOATIME) also causes st_atime not to be updated

timerfd_create.2

Michael Kerrisk

Add BUGS noting that timerfd supports fewer clock types than timer_create()

btowc.3

Michael Kerrisk

SEE ALSO: add wctob(3)

clock_getcpuclockid.3

Michael Kerrisk

SEE ALSO: add pthread_getcpuclockid(3)

cos.3

Michael Kerrisk

SEE ALSO: add sincos(3)

fexecve.3

Timo Sirainen

Note that fexecve() depends on a mounted /proc

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=514043>

Michael Kerrisk

CONFORMING TO: note addition of fexecve() in POSIX.1-2008

Michael Kerrisk

'fd' must be opened read-only and refer to a file that is executable

fmemopen.3

Michael Kerrisk

CONFORMING TO: note that these functions are in POSIX.1-2008

getifaddrs.3

Lucio Maciel

Fix memory leak in example program

Petr Baudis

Various small fixes

getpwnam.3

Michael Kerrisk

SEE ALSO: add getsppnam(3)

getumask.3

Michael Kerrisk

Updated glibc version number in NOTES

ilogb.3

Michael Kerrisk

SEE ALSO: add significand(3)

intro.3

Michael Kerrisk

SEE ALSO: add libc(7)

isalpha.3

Michael Kerrisk

Fix statement that isalpa() is obsolete; should be isascii()

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=512709>

Michael Kerrisk

SEE ALSO: add toascii(3)

mq_notify.3

Michael Kerrisk

Add cross reference to pthread_attr_init(3)

pthread_attr_setaffinity_np.3

Michael Kerrisk

SYNOPSIS: Fix declaration of 'attr'

pthread_getcpuclockid.3

Michael Kerrisk

SYNOPSIS: fix type of 'thread'

qsort.3

Michael Kerrisk

EXAMPLE: remove unnecessary "#include <unistd.h>"

random.3

Michael Kerrisk

SEE ALSO: add random_r(3)

remainder.3

Michael Kerrisk

SEE ALSO: add div(3)

scandir.3

Michael Kerrisk

CONFORMING TO: alphasort() and scandir()

are added to POSIX.1-2008

Michael Kerrisk

CONFORMING TO: note that versionsort() was added to glibc in version 2.1

sem_wait.3

Michael Kerrisk

SEE ALSO: add clock_gettime(2)

significand.3

Michael Kerrisk

Add CONFORMING TO noting that this function is unstandardized

sigwait.3

Michael Kerrisk

Add EXAMPLES section referring to pthread_sigmask(3)

sin.3

Michael Kerrisk

SEE ALSO: add sincos(3)

stpcpy.3

Michael Kerrisk

Add BUGS section noting the possibility of buffer overruns

Michael Kerrisk

Add missing pieces/fix various problems in example program

Michael Kerrisk

CONFORMING TO: stpcpy() is nowadays on the BSDs

Michael Kerrisk

SEE ALSO: add stpcpy.3

wscasecmp.3

Michael Kerrisk

CONFORMING TO: note that this function is added in POSIX.1-2008

wcsdup.3

Michael Kerrisk

CONFORMING TO: note that this function was added in POSIX.1-2008

wcsncasecmp.3

Michael Kerrisk

CONFORMING TO: note that this function is added in POSIX.1-2008

wctob.3

Michael Kerrisk

SEE ALSO: add btowc(3)

proc.5

Michael Kerrisk

Remove mention of epoll/max_user_instances
(Since this interface appeared in 2.6.28, and then
disappeared in 2.6.29.)

ascii.7

Michael Kerrisk

Update SEE ALSO list to include pages added in 3.17

Michael Kerrisk

SEE ALSO: add recently added iso_8859-*(7) pages

epoll.7

Michael Kerrisk

remove documentation of /proc/sys/fs/epoll/max_user_instances
This /proc interface appeared in 2.6.28. but will be
removed in 2.6.29.

Also, document change in default value of
/proc/sys/fs/epoll/max_user_watches (was 1/32 of lowmem,
now 1/25 of lowmem).

koi8-r.7

Michael Kerrisk

SEE ALSO: add koi8-u(7); remove crufty text

standards.7

Michael Kerrisk

Update to note that latest
POSIX/SUS was ratified in 2008

time.7

Michael Kerrisk

SEE ALSO: add pthread_getcpuclockid(3)

==== Changes in man-pages-3.19 =====

Released: 2009-02-20, Putaruru

Contributors

The following people contributed notes, ideas, or patches that have
been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

timer_create.2

Michael Kerrisk

New page documenting timer_create(2)

timer_delete.2

Michael Kerrisk

New page documenting timer_delete(2)

timer_getoverrun.2

Michael Kerrisk

New page documenting timer_getoverrun(2)

timer_settime.2

Michael Kerrisk

New page documenting timer_settime(2) and timer_gettime(2)

New and changed links

timer_gettime.2

Michael Kerrisk

New link to new timer_settime.2

Global changes

Various pages

Kir Kolyshkin

Trivial punctuation fixes in SEE ALSO

In SEE ALSO, when a few man pages are referenced, those are divided by commas. Every reference is on a separate line, and all lines but the last one should end with comma. I spotted one place where there is no comma in between references, and mocked up an awk script to find similar places:

```
for f in man*/*; do
  awk '
    /^.SH ["']SEE ALSO["']/ {
      sa=1; print "==" FILENAME " =="; print; next
    }
    /^\.(\PP|SH)/ {
      sa=0; no=0; next
    }

  }

  /^\.BR/ {
    if (sa==1) {
      print;
      if (no == 1)
        print "Missing comma in " FILENAME " +" FNR-1; no=0
    }
  }
  /^\.BR .*$/ {
    if (sa==1)
      no=1;
    next
  }
  /\.\\"/ {next}
```



```
./.*/ {
    if (sa==1) {
        print; next
    }
}
'$f;
done | fgrep 'Missing comma'
```

This patch fixes all the places found by the above script.

Also, there is an extra dot at the end of uri.7 "SEE ALSO" section. Removed as per man-pages(7) recommendation.

Changes to individual pages

getitimer.2

clock_getcpuclockid.3

time.7

Michael Kerrisk

SEE ALSO: add timer_create(2)

getitimer.2

Michael Kerrisk

Rename arguments for consistency with other timer pages

Also some other minor wording improvements

splice.2

Mark Hills

ERRORS: Add EINVAL case for file opened O_APPEND

Target file cannot be opened in append (O_APPEND) mode

In kernels prior to v2.6.27 splice() to a file in append mode is broken, and since that version it is disallowed. It is possible this behaviour may change in the future; see the kernel commit message (efc968d450e013049a662d22727cf132618dcb2f) for more information.

syscalls.2

Michael Kerrisk

Note that getpmsg(2) and putmsg(2) are unimplemented

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=514771>

timerfd_create.2

Michael Kerrisk

ERRORS: add EFAULT

timerfd_create.2

Michael Kerrisk

Rename timerfd_settime() 'curr_value'
arg to 'old_value'

For consistency with related pages.

vm86.2

Parag Warudkar

CONFORMING TO: Add 32-bit specific

Note that this call is only on *32-bit* Intel

mq_open.3

Michael Kerrisk

ERRORS: add ENOENT error for name == "/"

mq_open.3

Michael Kerrisk

ERRORS: Add EACCES error for name containing > 1 slash

sem_open.3

Michael Kerrisk

ERRORS: add EINVAL error where name == "/"

sem_open.3

Jens Thoms Toerring

Add case of non-well-formed name to ENOENT

shm_open.3

Michael Kerrisk

Clarify rules for construction of shared memory object names

proc.5

Michael Kerrisk

Add description of /proc/sys/kernel/sysrq

Reported by: Goerghe Cosorea <gheorghe.cosorea@gmail.com>

proc.5

Michael Kerrisk

Put /proc/modules entry in correct alphabetical order

ascii.7

Kir Kolyshkin

Fix formatting of tables on second page to use monospaced font

mq_overview.7

Michael Kerrisk

Clarify construction rules for message queue object names

sem_overview.7

Michael Kerrisk

Clarify construction rules for semaphore object names

See also

http://groups.google.com/group/comp.os.linux.development.apps/browse_thread/thread/b4a67caa765cb65f

==== Changes in man-pages-3.20 =====

Released: 2009-03-31, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

cpuid.4

Andi Kleen

New page for cpuid access device

msr.4

Andi Kleen

New page documenting x86 CPU MSR access device

Newly documented interfaces in existing pages

proc.5

Américo Wang

Document /proc/sys/vm/swappiness

Michael Kerrisk

Document /proc/sysrq-trigger

Global changes

timer_create.2

timer_delete.2

timer_getoverrun.2

timer_settime.2

numa.7

Michael

Kerrisk

Make source layout of 'Link with' text consistent with other pages

No actual change to formatted output, but this makes the

page sources more consistent for the purpose of grepping, etc.

mempcpy.3

signbit.3

significand.3

Michael Kerrisk

Global fix: acknowledge FSF in copyright

These pages are heavily based on original material in

glibc info pages, but the comments in the source of the pages

did not acknowledge the FSF copyright on the original material.

Fix that.

accept.2

read.2
recv.2
send.2
write.2

Michael Kerrisk

Fix discussion of EAGAIN/EWOULDBLOCK errors

For a non-blocking socket, POSIX.1-2001/2008 allow either EAGAIN or EWOULDBLOCK to be returned in cases where a call would have blocked. Although these constants are defined with the same value on most Linux architectures (PA-RISC is the exception), POSIX.1

does not require them to have

the same value. Therefore, a portable application using the sockets API should test for both errors when checking this case.

(NB POSIX.1 only mentions EWOULDBLOCK in the context of the sockets interfaces.)

Change made after a note cross-posted on linux-arch@vger, <http://thread.gmane.org/gmane.linux.debian.ports.hppa/5615> and a suggestion for write(2) from Carlos O'Donell

basename.3
getgrent.3
getgrnam.3
getpwent.3
getpwnam.3
readdir.3

Michael Kerrisk

Note that returned pointer should not be given to free()

armSCII-8.7
cp1251.7
iso_8859-10.7
iso_8859-11.7
iso_8859-13.7
iso_8859-14.7
iso_8859-15.7
iso_8859-16.7
iso_8859-2.7
iso_8859-3.7
iso_8859-4.7
iso_8859-5.7
iso_8859-6.7
iso_8859-7.7
iso_8859-8.7
iso_8859-9.7

koi8-r.7

koi8-u.7

Michael Kerrisk

Add explicit character set encoding to first line of source

Nowadays mandb has

provision to understand a character set

encoding that is explicitly indicated in the first line of the source. As pointed out by Colin Watson, including such an explicit indication on pages encoded in anything other than ISO 8859-1 or UTF-8 is useful for man-pages that aren't shipped in UTF-8.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=519209> and for some other background (responded to by Colin Watson in the above report):

<http://thread.gmane.org/gmane.comp.internationalization.linux/6040> ("man page encoding", 5 Jul 2005)

Changes to individual pages

fallocate.2

Michael Kerrisk

VERSIONS: glibc support is provided since version 2.10

fcntl.2

Michael Kerrisk

Remove mention of EWOULDBLOCK from discussion of mandatory locking

In the kernel, the error on encountering a mandatory lock is

EAGAIN. Although EAGAIN and EWOULDBLOCK are the same on most Linux architectures, on some they are not, so don't mention EWOULDBLOCK as it is misleading. (Mea culpa.)

getcontext.2

Michael Kerrisk

Note that POSIX.1-2008 removes the specification of getcontext()

getitimer.2

Michael Kerrisk

Note that POSIX.1-2008 recommends POSIX timers API instead of this API

gettimeofday.2

Michael Kerrisk

Note that POSIX.1-2008 recommends clock_gettime() instead of this API

ptrace.2

Michael Kerrisk

Note use of 'data' for PTRACE_SYS{CALL,EMU} and PTRACE_*_SINGLESTEP

These operations use the 'data' argument as a signal number,
like PTRACE_CONT.

ptrace.2

Mike Frysinger

only reference <sys/user.h>

The kernel no longer installs linux/user.h, so update
references to sys/user.h.

recv.2

Michael Kerrisk

Add 'iovec' defn to defn of 'msghdr' structure

The 'msghdr' structure includes a field of type 'iovec',
so show the definition of that structure in this page.

rename.2

Michael Kerrisk

Make ENOENT description consistent with POSIX.1-2008

timerfd_create.2

Michael Kerrisk

ERRORS: add EINVAL for invalid 'flags' for timer_settime()

truncate.2

Michael Kerrisk

SYNOPSIS: Fix description of feature test macro requirements
After a report by Arvid Norlander.

bcopy.3

Michael Kerrisk

Note that POSIX.1-2008 removes specification of bcopy()

bsd_signal.3

Michael Kerrisk

Note that POSIX.1-2008 recommends sigaction(2) instead of this API

ctime.3

Michael Kerrisk

Note that POSIX.1-2008 recommends strftime(3) instead of these functions

ecvt.3

Michael Kerrisk

Note that POSIX.1-2008 recommends sprintf(3) instead of these functions

gcvt.3

Michael Kerrisk

Note that POSIX.1-2008 recommends `sprintf(3)` instead of this function

`getcwd.3`

Michael Kerrisk

Note that `getcwd()` should be used instead of the obsolete `getwd()`

`getgrent.3`

Michael Kerrisk

Returned buffer may be statically allocated and overwritten by later calls

`gethostbyname.3`

Michael Kerrisk

POSIX.1-2008 recommends `getaddrinfo(3)` and `getnameinfo(3)` instead

`getnetent_r.3`

Michael Kerrisk

Fix function name in text: `s/getnetbynumber_r/getnetbyaddr_r/`
The SYNOPSIS showed the right function name (`getnetbyaddr_r`), but the text repeatedly used the wrong name (`getnetbynumber_r`).
Probably, this was a cut-and-paste error.

`getpwent.3`

Michael Kerrisk

Returned buffer may be statically allocated and overwritten by later calls

`index.3`

Michael Kerrisk

Note that POSIX.1-2008 recommends `strchr(3)` and `strchr(3)` instead

`isalpha.3`

Michael Kerrisk

Explain why POSIX.1-2008 marks `isascii(3)` obsolete

`lockf.3`

Nikanth Karthikesan

Update pointer to documentation in kernel source

`makecontext.3`

Michael Kerrisk

Note that POSIX.1-2008 recommends the use of POSIX threads instead

`mq_notify.3`

Michael Kerrisk

Document the POSIX.1-2008 optional `EINVAL` error

POSIX.1-2008 allows an optional EINTR error if notification==NULL and the caller is not currently registered to receive notifications.

posix_fallocate.3

Michael Kerrisk

Clarify that EINTR also occurs if 'len' *equals* zero

See http://bugzilla.kernel.org/show_bug.cgi?id=12919

posix_fallocate.3

Michael Kerrisk

Document POSIX.1-2001 and POSIX.1-2008 specifications for EINTR error

See http://bugzilla.kernel.org/show_bug.cgi?id=12919

posix_memalign.3

Michael Kerrisk

Document handling of size==0 case for posix_memalign()

pthread_exit.3

Michael Kerrisk

Fix error in DESCRIPTION: s/pthread_create/pthread_exit/

realpath.3

Michael Kerrisk

Rework resolved_path==NULL discussion w.r.t. POSIX.1-200[18]

Although the page already mentioned the resolved_path==NULL feature, and that this feature was added in POSIX.1-2008, there was still some crufty text in BUGS that hadn't been updated to reflect the POSIX.1-2008 changes.

Also, some other minor wording and grammar fixes.

scalb.3

Michael Kerrisk

Note that POSIX.1-2008 recommends scalbn*(3) instead

seekdir.3

Michael Kerrisk

SYNOPSIS: Fix type of 'offset' argument: s/off_t/long/

And add a NOTES section pointing out that 'off_t' was indeed used in glibc 2.1.1 and earlier.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=519230>

sem_post.3

Michael Kerrisk

Document EOVERFLOW error

shm_open.3

Michael Kerrisk

Recast discussion on name length to exclude terminating NULL byte

Probably it's clearer to describe

the length of the IPC object

name as a count that excludes the null terminator.

siginterrupt.3

Michael Kerrisk

Note that POSIX.1-2008 recommends sigaction() instead

sigset.3

Michael Kerrisk

Note APIs that POSIX.1-2008 recommends instead of these obsolete APIs

strftime.3

Michael Kerrisk

Small fix to description of %G

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=516677>

strftime.3

Michael Kerrisk

Add details on ISO 8601 week-based dates

ISO 8602 week-based dates are relevant for %G, %g, and %V,
and the existing details on these dates are a little thin.

strftime.3

Michael Kerrisk

Remove mention of year from ISO 8601 standard

The text mentioned the 1988 8601 standard, but there have
already been two revisions of the standard since then, so
simply remove mention of the year.

telldir.3

Michael Kerrisk

SYNOPSIS: Fix return type:

s/off_t/long/

And add a NOTES section pointing out that 'off_t'
was indeed used in glibc 2.1.1 and earlier.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=519230>

timeradd.3

Michael Kerrisk

Note that on some systems, <=, >=, == don't work for timercmp()

timeradd.3

Michael Kerrisk

SYNOPSIS: Fix return types of timerisset() and timercmp()

toascii.3

Michael Kerrisk

Note why POSIX.1-2008 marks this function obsolete

console_ioctl.4

Alan Curry

Fix 'argp' type for KDGETLED description

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=517485>

group.5

Michael Kerrisk

Various minor rewordings and improvements

resolv.conf.5

Michael Kerrisk

Document 'ip6-bytestring' option

resolv.conf.5

Michael Kerrisk

Document 'edns0' option

resolv.conf.5

Michael Kerrisk

Document 'ip6-dotint' / 'no-ip6-dotint' option

resolv.conf.5

Michael Kerrisk

Note that maximum value of 'ndots' option is capped to 15

resolv.conf.5

Michael Kerrisk

Note that maximum value of 'timeout' option is capped to 30

hier.7

Michael Kerrisk

Add description of /srv

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=520904>

ip.7

Michael Kerrisk

Fix type used to declare sin6_port

The page should use the type specified by POSIX,
rather than the (equivalent) type used in the kernel

ipv6.7

Teddy Hogeborn

Fix types used to declare sin6_family and sin6_port

The page should use the types specified by POSIX,

rather than the (equivalent) types used in the kernel.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=517074>

mq_overview.7

Michael Kerrisk

Recast discussion on name length to exclude terminating NULL byte

Probably it's clearer to describe the length of the IPC object

name as a count that

excludes the null terminator.

rtld-audit.7

Michael Kerrisk

Note that multiple libraries in LD_AUDIT doesn't work

This is reportedly fixed in glibc 2.10.

See http://sourceware.org/bugzilla/show_bug.cgi?id=9733

sem_overview.7

Michael Kerrisk

Fix discussion of length of semaphore names

Because of the "sem." prefix added by glibc to a semaphore

name, the limit on the length of the name (excluding the

terminating null byte) is 251 characters.

==== Changes in man-pages-3.21 =====

Released: 2009-04-15, Los Gatos

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Roman Byshko <rbyshko@gmail.com>

Apologies if I missed anyone!

New and rewritten pages

pthread_setconcurrency.3

Michael

Kerrisk

New page documenting pthread_setconcurrency(3) and
pthread_getconcurrency(3)

pthread_yield.3

Michael Kerrisk

New page documenting pthread_yield(3)

New and changed links

pthread_getconcurrency.3

Michael Kerrisk

New link to new pthread_setconcurrency(3)

Changes to individual pages

initrd.4

Michael Kerrisk

Various minor wording improvements

initrd.4

Frank Dana

Add missing word in description

feature_test_macros.7

Michael Kerrisk

Update for glibc 2.10 changes to <features.h>

From glibc 2.10, <features.h> understands the values 200809
for _POSIX_C_SOURCE and 700 for _XOPEN_SOURCE, and makes
corresponding changes to defaults for other feature test macros.

Michael Kerrisk

Add an example program

This example program makes it possible to explore what
feature test macros are set depending

on the glibc version

and the macros that are explicitly set.

ldconfig.8

Michael Kerrisk

/etc/ld.so.conf also include libraries found in /lib and /usr/lib

==== Changes in man-pages-3.22 =====

Released: 2009-07-25, Munich

Contributors

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Apologies if I missed anyone!

Changes to individual pages

clone.2

Michael Kerrisk

Rewrite crufty text about number of args in older version of clone()

Some bit rot had crept in regarding the discussion of the number of arguments in older versions of this syscall. Simplify the text to just say that Linux 2.4 and earlier didn't have ptid, tls, and ctid arguments.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=533868>

Michael Kerrisk

Fix version number for CLONE_NEWIPC

It's 2.6.19, not 2.4.19.

Michael Kerrisk

Fix errors in argument names in text (ptid, ctd)

execve.2

Mike Frysinger

Remove erroneous statement that
pending signal set is cleared
on execve(2).

fcntl.2

Michael Kerrisk

The kernel source file mandatory.txt is now mandatory-locking.txt

Michael Kerrisk

The Documentation/* files are now in Documentation/filesystems

flock.2

Michael Kerrisk

Remove unneeded reference to Documentation/mandatory.txt
Mandatory locks are only implemented by fcntl() locking

Michael Kerrisk

The Documentation/* files are now in Documentation/filesystems

fork.2

Jeff Moyer

Document fork() behaviour for the Linux native AIO io_context

It was noted on lkml that the fork behaviour is documented
for the POSIX AIO calls, but not for the Linux native calls.

Here is a patch which adds a small blurb that folks will
hopefully find useful.

Upon fork(), the child process does not inherit the
io_context_t data structures returned by io_setup,
and thus cannot

submit further asynchronous I/O or
reap event completions for said contexts.

getdents.2

Michael Kerrisk

The d_type field is fully supported on Btrfs

mount.2

Michael Kerrisk

Document MS_STRICTATIME, update description of MS_RELATIME
Starting with Linux 2.6.30, the MS_RELATIME behavior became
the default, and MS_STRICTATIME is required to obtain the
traditional semantics.

poll.2

Michael Kerrisk

Remove EBADF error from ERRORS

As reported by Motohiro:

"man poll" describe this error code.

>ERRORS

> EBADF An invalid file descriptor was given in one of the sets.

but current kernel implementation ignore invalid file descriptor,
not return EBADF.

...

In the other hand, SUSv3 talk about

> POLLNVAL

> The specified fd value is invalid. This flag is only valid in the
> revents

member; it shall ignored in the events member.

and

> If the value of fd is less than 0, events shall be ignored, and
> irevents shall be set to 0 in that entry on return from poll().

but, no describe EBADF.

(see <http://www.opengroup.org/onlinepubs/009695399/functions/poll.html>)

So, I think the implementation is correct.

Why don't we remove EBADF description?

sigaction.2

Michael Kerrisk

Expand description of si_utime and si_stime fields of siginfo_t

stat.2

Michael Kerrisk

Improve wording of ENOTDIR error

syscalls.2

Michael Kerrisk

Add preadv() and pwritev(), new in kernel 2.6.30

wait.2

Gokdeniz Karadag

Document CLD_DUMPED and CLD_TRAPPED si_code values

daemon.3

Michael Kerrisk

Clarify discussion of 'noclose' and 'nochdir' arguments

ffs.3

Petr Baudis

SEE ALSO: add memchr(3)

fmemopen.3

Petr Baudis

Relocate BUGS

section to correct position

Petr Baudis

NOTES: there is no file descriptor associated with the returned stream

Alexander Lamaison pointed out that this is not obvious from the documentation, citing an example with passing the FILE * handle to a function that tries to fstat() its fileno() in order to determine the buffer size.

Michael Kerrisk

CONFORMING TO: remove note that these functions are GNU extensions

That sentence is now redundant, since these functions are added in POSIX.1-2008.

lockf.3

Michael Kerrisk

Clarify relationship between fcntl() and lockf() locking

memchr.3

Petr Baudis

SEE ALSO: add ffs(3)

readdir.3

Michael Kerrisk

The d_type field is fully supported on Btrfs

setjmp.3

Mike Frysinger

Fix typo and clarify RETURN description

The word "signal" was duplicated in NOTES, and the RETURN section refers to

setjmp() and sigsetjmp(), and mentions

longjmp(), but not siglongjmp().

strcmp.3

Petr Baudis

SEE ALSO: add strverscmp(3)

strcpy.3

Mark Hills

SEE ALSO: Add strdup(3)

complex.7

Michael Kerrisk

Add missing header file for example program

Reimar Döffinger

Fix type used in example code

man complex (from release 3.18) contains the following code:

```
complex z = cexp(I * pi);
```

Reading the C99 standard, "complex" is not a valid type, and several compilers (Intel ICC, ARM RVCT) will refuse to compile.

It should be

```
double complex z = cexp(I * pi); instead.
```

environ.7

Michael Kerrisk

Note that last element in environ array is NULL

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=528628>

Michael Kerrisk

Wording fixes

mq_overview.7

Michael Kerrisk

Note that mkdir and mount commands here need superuser privilege

Michael Kerrisk

Fix example showing contents of /dev/mqueue file

standards.7

Michael Kerrisk

Remove references to dated books

Gallmeister and Lewine are rather old books. Probably, there are better books to consult nowadays, and anyway, this man page isn't intended to be a bibliography.

==== Changes in man-pages-3.23 =====

Released: 2009-09-30, Munich

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Apologies if I missed anyone!

Changes to individual pages

execve.2
pipe.2
tee.2
fmemopen.3
mq_notify.3
qsort.3

Michael Kerrisk

Replace use of assert() by code that checks argc

See http://bugzilla.kernel.org/show_bug.cgi?id=13569

As noted by Andrey:

The purpose of the assert macro, defined in <assert.h>, is to provide a tool to check for programming mistakes or program logic errors. However, the assert macro must never be used to perform checks for run time errors, since, with the NDEBUG macro defined, expressions within the assert macro invocations are not evaluated/checked for, resulting in behavior that was not originally intended.

...

The pages affected in the core package are

execve(2)
pipe(2)
tee(2)

fmemopen(3)
mq_notify(3)
qsort(3)

getrusage.2

Michael Kerrisk

ru_inblock and ru_oublock are now implemented
These fields of the rusage structure are filled in since
Linux 2.6.22.

mmap.2

Michael Kerrisk

Add brief documentation of MAP_HUGETLB
This flag is new in 2.6.32, and serves a similar
purpose to the shmget() SHM_HUGETLB flag.

open.2

Christoph Hellwig

add some comments on O_SYNC and friends

poll.2

Michael Kerrisk

Clarify wording describing of 'nfds' argument.
reported by: rui rlex <rui.rlex@gmail.com>

semctl.2

Nicolas François

Remove some redundant words

setpgid.2

Michael Kerrisk

Add an explanation of orphaned process groups

splice.2

tee.2

vmsplice.2

Mark Hills

Fix return type
Since glibc 2.7, the return type for these functions
is ssize_t (formerly it was long).

stat.2

Nicolas

François

Fix small bug in example program
Since it is a failure, EXIT_FAILURE looks more appropriate
than EXIT_SUCCESS.

umount.2

Michael Kerrisk

glibc only exposes MNT_DETACH and MNT_EXPIRE since version 2.11

See http://sourceware.org/bugzilla/show_bug.cgi?id=10092

exit.3

Michael Kerrisk

Add a pointer to explanation of orphaned process groups in setpgid(2)

fflush.3

Michael Kerrisk

fflush() discards buffered input

ffs.3

Michael Kerrisk

Clarify that ffs() and ffsll() are GNU extensions

getaddrinfo.3

Michael Kerrisk

Note nonstandard assumed hints.ai_flags value when hints is NULL

When hints is NULL, glibc assumes hints.ai_flags is

AI_V4MAPPED|AI_ADDRCONFIG whereas POSIX says 0.

According to Ulrich Drepper, glibc's behavior is better.

getmntent.3

Mike Frysinger

setmntent() argument is 'filename' not 'fp'

The description

of setmntent() formerly used the wrong

argument name.

posix_fallocate.3

Nicolas François

Fix reference to POSIX.1-2008

The sentence mentions twice POSIX.1-2001.

I guess the second one should be POSIX.1-2008.

This should be checked in the standard.

setenv.3

Michael Kerrisk

Improve ERRORS section

Add ENOMEM error; improve EINVAL description. Also, make

RETURN VALUE section a little more accurate in its mention

of errno.

strftime.3

Nicolas François

Fix error in description: s/Monday/Thursday/

proc.5

Nicolas François

Fix page cross reference

max_user_watches is better explained in epoll(7) than inotify(7).

proc.5

Michael Kerrisk

dmesg is in section 1, not section 8

capabilities.7

Michael Kerrisk

FS UID manipulations affect CAP_LINUX_IMMUTABLE and CAP_MKNOD

Nowadays, file system UID manipulations also affect

CAP_LINUX_IMMUTABLE (since 2.6.3) and CAP_MKNOD (since 2.6.29).

capabilities.7

Michael Kerrisk

Fix version number for CAP_MKNOD in FS UID manipulations

A recent patch said "since 2.6.29". It should have

been "since 2.6.30".

capabilities.7

Nicolas François

Reword a bad sentence in description of capability bounding set.

mq_overview.7

Michael Kerrisk

Change documented ranges for msg_max and msgsize_max

Linux 2.6.28 changed the permissible ranges for

these /proc files.

tcp.7

udp.7

Nicolas François

Replace references to syctl interfaces with /proc

==== Changes in man-pages-3.24 =====

Released: 2010-02-25, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

add_key.2

David Howells

New page documenting add_key(2)

Taken from keyutils-1.1 package.

keyctl.2

David Howells

New page documenting keyctl(2)

Taken from keyutils-1.1 package.

request_key.2

David Howells

New page documenting request_key(2)

Taken from keyutils-1.1 package.

Global changes

Various pages

Michael Kerrisk

Global fix: s/non-root/unprivileged/

Various pages

Michael Kerrisk

Global fix: s/non-privileged/unprivileged/

Various pages

Michael Kerrisk

Global fix: /non-superuser/unprivileged user/

Various pages

Michael Kerrisk

s/non-/non/

The tendency in English, as prescribed in style guides like Chicago MoS, is toward removing hyphens after prefixes like "non-" etc.

Various pages

Michael Kerrisk

Global fix: s/re-/re/

The tendency in English, as prescribed in style guides like Chicago MoS, is toward removing hyphens after prefixes like "re-" etc.

Various pages

Michael Kerrisk

Global fix: s/multi-/multi/

The tendency in English, as prescribed in style guides like Chicago MoS, is toward removing hyphens after prefixes like "multi-" etc.

Various pages

Michael Kerrisk

Global fix: s/pre-/pre/

The tendency in English, as prescribed in style guides like Chicago MoS, is toward removing hyphens after prefixes like "pre-" etc.

Various pages

Michael Kerrisk

Global fix: s/sub-/sub/

The tendency in English, as prescribed in style guides like Chicago MoS, is toward removing hyphens after prefixes like "sub-" etc.

stime.2

time.2

utimensat.2

ctime.3

difftime.3

ftime.3

getspnam.3

mq_receive.3

mq_send.3

rtime.3

sem_wait.3

strftime.3

strptime.3

timeradd.3

rtc.4

core.5

proc.5

icmp.7

time.7

Michael Witten

Global fix: Consistently define the Epoch

All definitions of the Epoch have been refactored to the following:

1970-01-01 00:00:00 +0000 (UTC)

That form is more consistent, logical, precise, and internationally recognizable than the other variants.

Also, some wording has been altered as well.

spu_create.2

getopt.3

passwd.5

Michael Kerrisk

Global fix: s/non-existing/nonexistent/

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
futimesat.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
symlinkat.2
unlinkat.2
utimensat.2
mkfifoat.3

Michael Kerrisk

Update feature test macro requirements

Starting in glibc 2.10, defining `_XOPEN_SOURCE >= 700`,
or `_POSIX_C_SOURCE >= 200809` exposes the declarations

of

these functions.

Changes to individual pages

clock_getres.2

Michael Kerrisk

Update text on nonsettable `CLOCK_*_CPUTIME_ID` clocks

SUSv3 permits, but does not require `CLOCK_THREAD_CPUTIME_ID` and
`CLOCK_PROCESS_CPUTIME_ID` to be settable.

See http://bugzilla.kernel.org/show_bug.cgi?id=11972.

execve.2

Colin Watson

Fix description of treatment of caught signals

Caught signals reset to their default on an `execve()` (not
to being ignored).

fcntl.2

Michael Kerrisk

`s/F_OWNER_GID/F_OWNER_PGRP/`

Peter Zijlstra took the name change I suggested.

Michael Kerrisk

Document `F_[SG]ETOWN_EX`; update details on `F_SETOWN`

Linux 2.6.32 adds `F_SETOWN_EX` and `F_GETOWN_EX`.

Linux 2.6.12 changed (broke) the former behavior of

F_SETOWN with respect to threads.

intro.2

intro.3

Michael Kerrisk

Make subsection

heading consistent with other intro.? pages

These pages used "Copyright Terms"; the other intro.? pages used "Copyright Conditions". Make these pages like the others.

sendfile.2

Michael Kerrisk

Clarify behavior when 'offset' is NULL

seteuid.2

Michael Kerrisk

Note unstandardized behavior for effective ID

POSIX.1 doesn't require that the effective ID can be changed to the same value it currently has (a no-op). The man page should note this, since some other implementations don't permit it.

setgid.2

Michael Kerrisk

Fix EPERM error description

s/effective group ID/real group ID/

This bug lived in man pages for 15 years before Jason spotted it! I checked back in Linux 1.0, and the behavior was as the fixed man page describes.

setreuid.2

Michael Kerrisk

Add more detail on POSIX.1 specification for these syscalls

setuid.2

Michael Kerrisk

Remove crufty statement that seteuid() is not in POSIX

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=569812>

stime.2

strftime.3

tzset.3

zic.8

Michael Witten

GMT -> UTC (where appropriate)

sync_file_range.2

Christoph Hellwig

Add some big warnings re data integrity

This system call is by design completely unsuitable for any data integrity operations. Make that very clear in the manpage.

CPU_SET.3

Vlastimil Babka

SYNOPSIS: Fix return types for CPU_COUNT_*(*)*

These functions return 'int' not void'.

confstr.3

Michael Kerrisk

Fix feature test macro requirements

daemon.3

Michael Kerrisk

Fix description of 'nochdir' argument.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=554819>

gethostbyname.3

Michael Kerrisk

Document feature test macro requirements for herror() and hstrerror()

Since glibc 2.8, one of `_BSD_SOURCE`,
`_SVID_SOURCE`,
or `_GNU_SOURCE` is required.

getline.3

Michael Kerrisk

Update to reflect that these functions were standardized in POSIX.1-2008

getnameinfo.3

Michael Kerrisk

Document feature test macros requirements for NI_MAXHOST and NI_MAXSERV

Since glibc 2.8, one of `_BSD_SOURCE`, `_SVID_SOURCE`, or `_GNU_SOURCE`
must be defined to obtain these definitions.

getopt.3

Jonathan Nieder

Fix feature test macro requirements

memchr.3

Michael Kerrisk

Add feature text macro requirements for memrchr()

nextafter.3

Michael Kerrisk

Fix notable error in DESCRIPTION.

"less than y" should be "less than x".

popen.3

Michael Kerrisk

Fix feature test macro requirements

pthread_attr_setdetachstate.3

pthread_attr_setschedparam.3

pthread_attr_setschedpolicy.3

Denis Barbier

Argument name is 'attr' not 'thread'

The function argument was misnamed in the DESCRIPTION

on these

three pages.

rtnetlink.3

Michael Kerrisk

Various fixes in example code

Edward reported a problem in the example code, where a variable seems to be misnamed. Upon inspection, there seem to be a few such instances, and this patch is my best guess at how things should look.

sched_getcpu.3

Michael Kerrisk

Place correct header file in SYNOPSIS

sleep.3

Bill O. Gallmeister

sleep() puts calling *thread* to sleep (not calling *process*)

sleep.3

Bill O. Gallmeister

Add nanosleep(2) to SEE ALSO

strftime.3

Michael Kerrisk

%z is defined in SUSv3

So, substitute "GNU" tag in man page by "SU".

strftime.3

Michael Witten

Move 822-compliant date format example to EXAMPLES section

The RFC 822-compliant date format given in the description of `%z' is now moved to the `EXAMPLES' section (note: `EXAMPLE' has been

renamed `EXAMPLES').

Furthermore, that format example is now actually

RFC 822-compliant (using `%y' instead of `%Y') and has been

qualified as being correct only when in the context of at least an English locale. Also, `%T` is used in place of `%H:%M:%S`.

For completeness, an RFC 2822-compliant format example has been similarly added.

strftime.3

Michael Witten

Expand introductory text

strftime.3

Michael Witten

Clarification of %z specifier

string.3

Mark Hills

Add stpcpy() to this list of string functions

strptime.3

Michael Kerrisk

Initialize tm structure in example program

undocumented.3

Michael Kerrisk

Remove pages now documented

By now, the following are documented:

fopencookie(3)

freeifaddrs(3)

rawmemchr(3)

readdir_r(3)

getutmp(3)

getutmpx(3)

utmpxname(3)

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=554819>

group.5

Michael Kerrisk

s/passwd/password/

The page inconsistently used "passwd" and "password" to refer to the same field.

capabilities.7

Michael Kerrisk

Update securebits discussion to use SECBIT_* flags

feature_test_macros.7

Michael Kerrisk

`_POSIX_C_SOURCE >= 200808` defines `_ATFILE_SOURCE`

Since glibc 2.10, `_POSIX_C_SOURCE >= 200808` defines `_ATFILE_SOURCE`

path_resolution.7

Michael Kerrisk

Add `readlink(2)` to SEE ALSO

Michael Kerrisk

Fix NAME line

The poorly constructed part preceding `"\"` causes apropos not to be able to find the subject.

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=558300>

signal.7

Michael Kerrisk

Fix discussion of `SIGUNUSED`

Clarify that this signal really is synonymous with `SIGSYS`.

See http://bugzilla.kernel.org/show_bug.cgi?id=14449

=====

Changes in man-pages-3.25 =====

Released: 2010-06-20, Munich

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Apologies if I missed anyone!

New and rewritten pages

migrate_pages.2

Andi Kleen

New page documenting migrate_pages(2).

Andi's text based on the move_pages.2 page;
additional edits by mtk.

migrate_pages(2) was new in Linux 2.6.16.

quotactl.2

Jan Kara

Major updates

Update the page to consolidate information from the
outdated man-pages quotactl.2 page and the quotactl.2
page in the "quota-tools" package. The page in "quota-tools"
has now been dropped by Jan Kara, so that there is just one
canonical quotactl.2 page (in pan-pages).

Michael Kerrisk

Various other pieces added to the page by mtk.

Newly documented interfaces in existing pages

fcntl.2

Michael Kerrisk

Document F_SETPIPE_SZ and F_GETPIPE_SZ

These commands, new in kernel 2.6.35, set and get the capacity of pipes.

madvise.2

Andi Kleen

Document MADV_HWPOISON

Michael Kerrisk

Added documentation of MADV_MERGEABLE and MADV_UNMERGEABLE

These flags (used for Kernel Samepage Merging, KSM) are new in 2.6.32.

Andi Kleen

Document MADV_SOFT_OFFLINE

This operation was added in

Linux 2.6.33.

mmap.2

Michael Kerrisk

Document MAP_UNINITIALIZED flag

New in Linux 2.6.33.

prctl.2

Andi Kleen

Document the hwpoison prctls in 2.6.32

sched_setscheduler.2

Michael Kerrisk

Document SCHED_RESET_ON_FORK

New in Linux 2.6.32

umount.2

Michael Kerrisk

Document UMOUNT_NOFOLLOW

New in Linux 2.6.34.

mkstemp.3

Michael Kerrisk

Document mkstemp() and mkostemp()

These functions are new in glibc 2.11. They allow the template string to include a suffix after the "XXXXXX" string.

proc.5

Michael Kerrisk

Document /proc/sys/vm/memory_failure_early_kill
New in 2.6.32. Description based on the text in
Documentation/sysctl/vm.txt.

Michael Kerrisk

Document /proc/sys/vm/memory_failure_recovery
New in Linux 2.6.32. Description based on the text in
Documentation/sysctl/vm.txt.

Michael Kerrisk

Document /proc/sys/fs/pipe-max-size

socket.7

Jan Engelhardt

Document SO_DOMAIN and SO_PROTOCOL
These read-only socket options were new in Linux 2.6.32.

New and changed links

fstatvfs.2

Michael Kerrisk

Adjust link to point to Section 3

fstatvfs.3

statvfs.2

Michael Kerrisk

New link to page relocated to Section 3

mkstemp.3

mkostemp.3

Michael Kerrisk

New links to mkstemp.3

mkstemp.3 now describes mkstemp(3) and mkostemp(3).

timer_create.2

timer_delete.2

timer_getoverrun.2

timer_settime.2

getline.3

Michael Kerrisk

Add 'L' to constants in feature test macro specifications

Be consistent with POSIX, which uses constants such as 200809L.

Global changes

open.2

sync_file_range.2

umount.2

Michael Kerrisk

Global fix: s/filesystem/file system/

Changes to individual pages

fcntl.2

Michael Kerrisk

Note

that glibc 2.11 papers over the kernel F_GETOWN bug

Since version 2.11, glibc works around the kernel limitation for

process groups IDs < 4096 by implementing F_GETOWN via F_GETOWN_EX.

futex.2

Michael Kerrisk

Various fixes in SEE ALSO

getpriority.2

nice.2

Francesco Cosoleto

Move renice from section 8 to section 1

getrusage.2

Mark Hills

Add ru_maxrss

See kernel commit 1f10206.

Mark Hills

Description of maintained fields

These descriptions are taken from NetBSD 5.0's getrusage(2).

Michael Kerrisk

Enhanced description of various fields

mlock.2

Michael Kerrisk

/proc/PID/status VmLck shows how much memory a process has locked

After a note from Tom Swigg, it seems sensible mention VmLck here.

mount.2

Petr Uzel

Fix incorrect path

move_pages.2

Andi Kleen

Clarify includes/libraries

mremap.2

Michael Kerrisk

Clarify existence
of fifth argument.

msgctl.2

semctl.2

shmctl.2

Francesco Cosoleto

Move ipc's from section 8 to section 1

open.2

Michael Kerrisk

Remove ambiguity in text on NFS and O_EXCL.

poll.2

Michael Kerrisk

Fix discussion of ppoll() timeout argument

1. Rename ppoll() argument to "timeout_ts" to distinguish it from the poll() argument in the text.
2. More accurately describe the poll() call that is equivalent to ppoll().

posix_fadvise.2

Michael Kerrisk

Add sync_file_range(2) under SEE ALSO

prctl.2

Michael Kerrisk

Correct PR_SET_KEEPCAPS description

The "keep capabilities" flag only affects the treatment of permitted capabilities, not effective capabilities.

Also: other improvements to make the PR_SET_KEEPCAPS text clearer.

select_tut.2

Michael Kerrisk

Fix bug in example program

sigaction.2

Michael Kerrisk

Add TRAP_BRANCH

and TRAP_HWBKPT to si_code values for SIGTRAP

Michael Kerrisk

Rearrange text describing fields set by sigqueue(2)

Michael Kerrisk

Add details for signals sent by POSIX message queue notifications

Michael Kerrisk

Improve description of various siginfo_t fields

Michael Kerrisk

Add some details for SIGTRAP and si_trapno

Andi Kleen

Document hwpoison signal extensions

stats.2

Michael Kerrisk

Bring stats struct type declarations closer to glibc reality

Fang Wenqi

Add definition EXT4_SUPER_MAGIC = 0xEF53

Michael Kerrisk

Document f_frsize field.

statvfs.2

Michael Kerrisk

Move this page to section 3 (since it's a library call)

swapon.2

Ivana Hutarova Varekova

Note effect of CONFIG_MEMORY_FAILURE on MAX_SWAPFILES

From 2.6.32, MAX_SWAPFILES is decreased by 1 if the kernel is built with CONFIG_MEMORY_FAILURE.

syscalls.2

Michael Kerrisk

Bring system call list up to date with Linux 2.6.33

Michael Kerrisk

Fix kernel version number for utimes()

cproj.3

Michael Kerrisk

Note fix for C99 conformance in glibc 2.12.

crypt.3

Petr Baudis

Correct note on key portion significance

As Marcel Moreaux notes:

The Linux manpage for crypt()[1] contains the following statement as the last sentence of the NOTES section:

In the SHA implementation the entire key is significant (instead of only the first 8 bytes in MD5).

It should probably say "DES" where it says "MD5" (and maybe "MD5/SHA" where it says "SHA"), because in MD5 password hashing, the entire key is significant, not just the first 8 bytes.

This patch fixes the wording.

fmemopen.3

Michael Kerrisk

Bug fix in example program

ftw.3

Michael Kerrisk

Note that if 'fn' changes

CWD, the results are undefined

Michael Kerrisk

Clarify description of fpath argument

As reported by Pierre Habouzit, 'fpath' is not relative to 'dirpath'. It is either relative to the calling process's current working directory (if 'dirpath' was relative), or it is absolute (if 'dirpath' was absolute).

getaddrinfo.3

Christian Franke

Fix a field name mixup: s/ai_family/ai_flags/

getline.3

Robert Wohlrab

Remove unneeded check before free()

The manpage of getline shows an example with an extra NULL pointer check before it calls free. This is unneeded according to free(3):

If ptr is NULL, no operation is performed.

This patch removes the "if" check.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=572508>

log.3

log10.3

log2.3

Jan Engelhardt

Add cross-references to other-base logarithmic functions

opendir.3

Petr Baudis

Specify feature test macro requirements for fdopendir(3)

Currently, there is no note on the fact that fdopendir() is

POSIX.2008-only.

openpty.3

Eric Blake

Use const as appropriate

Michael Kerrisk

Note glibc version that added "const" to function arguments

Michael Kerrisk

Explicitly note that these functions are not in POSIX

resolver.3

Michael Kerrisk

Fix declaration of dn_comp() in SYNOPSIS

Remove the second 'exp_dn' from the calling signature.

termios.3

Michael Kerrisk

Change NOFLSH text to speak of characters, not signals

core.5

Michael Kerrisk

Update description of coredump_filter

Kernel 2.6.24 added MMF_DUMP_ELF_HEADERS.

Kernel 2.6.28 added MMF_DUMP_HUGETLB_PRIVATE and
MMF_DUMP_HUGETLB_SHARED.

elf.5

Daisuke HATAYAMA

Document PN_XNUM extension

In linux-2.6.34-rc1, an ELF core extension was added; user-land
tools manipulating ELF core dump such as gdb and binutils has
already been modified before; so elf.5 needs to be modified
accordingly.

You can follow information on the ELF extension via the LKML post:

<http://lkml.org/lkml/2010/1/3/103>

Date Mon, 04 Jan 2010 10:06:07 +0900 (JST)

Subject ... elf coredump: Add extended numbering support

This Linux-specific extension was added in kernel 2.6.34.

Reviewed-by: Petr Baudis <pasky@suse.cz>

Michael Kerrisk

Remove EI_BRAND

As reported by Yuri Kozlov and confirmed by Mike Frysinger,

EI_BRAND is not in GABI

(<http://www.sco.com/developers/gabi/latest/ch4.eheader.html>)

It looks to be a BSDism

Michael Kerrisk

Remove words under '.note': "described below"

The existing text is broken, because there is no "'Note Section' format' describe

below. Simplest

solution is to remove the words "described below".

filesystems.5

Jeff Barry

Add discussion of ntfs and ext4

proc.5

Michael Kerrisk

Simplify description of /proc/sys and /proc/sys/fs

In the description of these directories, there's no need to list all the files and subdirectories that they contain; that information is provided by the entries that follow.

services.5

Yuri Kozlov

Remove crufty reference to nonexistent BUGS section

capabilities.7

Michael Kerrisk

Document CAP_SYS_RESOURCE and F_SETPPIPE_SZ

With CAP_SYS_RESOURCE, a process can increase pipe capacity above /proc/sys/ps/pipe-max-size.

Michael Kerrisk

Add get_robust_list() info under CAP_SYS_PTRACE

Michael Kerrisk

Add MADV_HWPOISON under CAP_SYS_ADMIN

signal.7

Michael Kerrisk

Make a clearer statement about nonportable aspect of signal(2)

Make

a clearer statement that signal(2) is less portable for establishing a signal handler.

socket.7

Michael Kerrisk

Use consistent language to describe read-only socket options

udp.7

Michael Kerrisk

Add FIONREAD warning.

Warn that FIONREAD can't distinguish case of a zero-length

datagram from the case where no datagrams are available.

=====
Changes in man-pages-3.26
=====

Released: 2010-09-04, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

eventfd.2

Michael Kerrisk

Document EFD_SEMAPHORE

Document the EFD_SEMAPHORE flag, added in kernel 2.6.30.

Also restructured some parts of the text to fit with the addition of the EFD_SEMAPHORE text.

Global changes

getaddrinfo.3

getipnodebyname.3

st.4

Michael Kerrisk

s/logical OR/bitwise OR/

Changes to individual pages

clock_nanosleep.2

Michael Kerrisk

Fix discussion of return value when interrupted
by a signal

epoll_ctl.2

Yuri Kozlov

Small fix to types in data structures

eventfd.2

Alexander Shishkin

Clarified close-on-exec behavior

madvise.2

Michael Kerrisk

Improve discussion of MADV_SOFT_OFFLINE

mkdir.2

Michael Kerrisk

Add EMLINK error to ERRORS

mq_getsetattr.2

mq_close.3

mq_getattr.3

mq_notify.3

mq_send.3

mq_unlink.3

Lnac Huard

Fix return type in SYNOPSIS (s/mqd_t/int/)

recv.2

send.2

Michael Kerrisk

Remove obsolete reference to glibc version in NOTES

recv.2

send.2

Nicholas Hunt

Adjust type shown for msg_controllen to glibc reality

This patch fixes the type of msg_controllen in the struct msg_hdr definition given in send.2 and recv.2 to match the definition in glibc and the kernel.

select.2

Michael Kerrisk

Update NOTES on old glibc pselect()

Make it clear that modern glibc uses the kernel pselect() on systems where

it is available.

See https://bugzilla.kernel.org/show_bug.cgi?id=14411

statfs.2

Guillem Jover

Fix copy & paste error for __SWORD_TYPE definition

sysfs.2

Michael Kerrisk

Clarify that this syscall is obsolete.

And strengthen recommendation to use /proc/filesystems instead.

write.2

Michael Kerrisk

Add EDESTADDRREQ error

a64l.3

Peng Haitao

Fix error in NOTES, s/a64l/l64a/

error.3

Linus Nilsson

Change "perror" to "strerror" in DESCRIPTION of error()

mq_send.3

Michael Kerrisk

Fix EAGAIN description (s/empty/full)

initrd.4

Yuri Kozlov

Fix IP address in explanation of NFS example

tzfile.5

Michael Kerrisk

Add information on version 2 format timezone files

Updated using information from the tzcode 2010l release at

<ftp://elsie.nci.nih.gov/pub>.

(It's an open question whether or not a version of tzfile.5

should live independently

in man-pages. It was added to the

man-pages set many years ago. For now, I'll follow a

conservative course that causes least pain to downstream,

by continuing to maintain a separate copy in man-pages.)

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=594219>

==== Changes in man-pages-3.27 =====

Released: 2010-09-22, Nuernberg

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Apologies if I missed anyone!

New and rewritten pages

sigevent.7

Petr Baudis, Michael Kerrisk

New page to centralize description of sigevent structure

Several interfaces use this structure. Best to centralize the common details in one place. Content taken from the existing timerfd_create.2 and mq_open.3 pages, with additions by Petr Baudis and Michael Kerrisk.

Newly documented interfaces in existing pages

ip.7

Jiri Olsa

Document IP_NODEFRAG

This option is new in Linux 2.6.36

unix.7

Michael Kerrisk

Document SIOCINQ ioctl() operation

Global changes

_exit.2

brk.2

chdir.2

chmod.2

chown.2

chroot.2

clock_nanosleep.2

getdtablesize.2

gethostname.2

getpagesize.2

getsid.2

killpg.2

mknod.2

mknodat.2

posix_fadvise.2

pread.2

readlink.2

setpgid.2

setreuid.2

sigaltstack.2

stat.2

symlink.2
sync.2
truncate.2
vfork.2
wait.2
wait4.2
a64l.3
abs.3
acos.3
acosh.3
asin.3
asinh.3
atan.3
atan2.3
atanh.3
atoi.3
cbrt.3
ceil.3
clock_getcpuclid.3
copysign.3
cos.3
cosh.3
dirfd.3
div.3
dprintf.3
ecvt.3
erf.3
erfc.3
exp.3
exp2.3
expm1.3
fabs.3
fdim.3
fexecve.3
ffs.3
floor.3
fma.3
fmax.3
fmemopen.3
fmin.3
fmod.3
fpclassify.3
frexp.3
fwide.3
gamma.3
gcv.3
getcwd.3
getdate.3

getgrent.3
gethostid.3
getpass.3
getpwent.3
getsubopt.3
getw.3
hypot.3
ilogb.3
insque.3
isalpha.3
isgreater.3
iswblank.3
j0.3
j0.3
ldexp.3
lockf.3
log.3
log10.3
log1p.3
log2.3
logb.3
lrint.3
lround.3
mbsnrtowcs.3
mkdtemp.3
mkstemp.3
mktemp.3
modf.3
mq_receive.3
mq_send.3
nan.3
nextafter.3
posix_fallocate.3
posix_memalign.3
pow.3
printf.3
qecvt.3
random.3
realpath.3
remainder.3
remquo.3
rint.3
rint.3
round.3
scalb.3
scalbln.3
scanf.3
siginterrupt.3

signbit.3
sigset.3
sin.3
sinh.3
sqrt.3
stpcpy.3
stpncpy.3
strdup.3
strdup.3
strnlen.3
strsignal.3
strtod.3
strtol.3
strtoul.3
tan.3
tanh.3
tgamma.3
trunc.3
tty slot.3
ualarm.3
usleep.3
wcpcpy.3
wpcncpy.3
wscasecmp.3
wscdup.3
wscncasecmp.3
wscnlen.3
wcsnrtombs.3
wprintf.3

Michael Kerrisk

Add/fix/update feature test macro requirements in SYNOPSIS

Various changes to:

- * Update feature test requirements to note changes in recent glibc releases
- * Correct errors in feature test macro requirements
- * Add feature test macro requirements to pages where the requirements were not previously stated.

accept.2
clone.2
dup.2
fallocate.2
pipe.2
readahead.2
sched_setaffinity.2
unshare.2
CPU_SET.3
endian.3

euidaccess.3
fexecve.3
getpt.3
getpw.3
getumask.3
getutmp.3
gnu_get_libc_version.3
makedev.3
matherr.3
mbsnrtowcs.3
memfrob.3
pthread_attr_setaffinity_np.3
pthread_getattr_np.3
pthread_setaffinity_np.3
pthread_tryjoin_np.3
tcgetsid.3
wscasecmp.3
wsncasecmp.3
wcsnlen.3
wcsnrtombs.3
wcswidth.3
rtld-audit.7

Michael Kerrisk

SYNOPSIS: Add reference to feature_test_macros(7)

These pages specify feature test macros in the function prototypes. Add a reference to feature_test_macros(7), so that readers are pointed to the information that feature test macros must be defined before including *any* header file.

clock_nanosleep.2
clock_getcpuclockid.3
getnetent_r.3
getprotoent_r.3
getrpcent_r.3
getservent_r.3
sigwait.3

Michael Kerrisk

RETURN VALUE: Note that "positive error numbers" are listed in ERRORS

fcntl.2
intro.2
open.2
poll.2
ftw.3
intro.3
matherr.3
system.3

tmpnam.3

unix.7

Michael Kerrisk

Note that feature test macros must be defined before **any** includes

Programmers often make the mistake of including a feature test macro only after having already included

some header files.

This patch adds some text at opportune places to remind programmers to do things the right way.

index.3

stpcpy.3

strcasecmp.3

strcat.3

strchr.3

strcmp.3

strcoll.3

strcpy.3

strdup.3

strfry.3

strpbrk.3

strsep.3

strspn.3

strstr.3

strtok.3

strxfrm.3

Michael Kerrisk

SEE ALSO: Add reference to string(3)

The idea here is to provide a route to discover other string functions.

armSCII-8.7

cp1251.7

iso_8859-3.7

iso_8859-5.7

iso_8859-6.7

iso_8859-8.7

iso_8859-10.7

iso_8859-11.7

iso_8859-13.7

iso_8859-14.7

koi8-u.7

Denis Barbier

Fix decimal values in encoding tables

Octal and hexadecimal values are right, but there are some off-by-one errors in decimal values. Correct values are printed by this command:

```
perl -pi -e 'if (s/^(([0-7]+)\t([0-9]+)\t([0-9a-fA-F]+)//)
{printf "%03o\t%d\t%s", hex($3), hex($3), $3;}' man7/*.7
```

Changes to individual
pages

capget.2

Michael Kerrisk

SYNOPSIS: Remove unneeded "undef _POSIX_SOURCE"

fcntl.2

Michael Kerrisk

Add feature test macro requirements for F_GETOWN and F_SETOWN

fcntl.2

Michael Kerrisk

Note feature test macro requirements for F_DUPFD_CLOEXEC

getrlimit.2

Michael Kerrisk

Document units for RLIMIT_RTIME limit

This limit is in microseconds

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=596492>

lseek.2

Michael Kerrisk

Removed note about return type on ancient systems

mount.2

Michael Kerrisk

Definitions of various MS_* constants only appeared in glibc 2.12

See http://sourceware.org/bugzilla/show_bug.cgi?id=11235

stat.2

Michael Kerrisk

Update information on nanosecond timestamp fields

Update feature test macro requirements for exposing these fields.

Note that these fields are specified in POSIX.1-2008.

timer_create.2

Michael Kerrisk

Factor out generic material that was moved to new sigevent(7) page

aio_fsync.3

Michael Kerrisk

Add reference to new sigevent(7) page

atanh.3

Michael Kerrisk

glibc 2.10 fixed pole error bug

http://sourceware.org/bugzilla/show_bug.cgi?id=6759

was resolved.

cerf.3

Michael Kerrisk

Make it clearer that this function is unimplemented

cos.3

Michael Kerrisk

errno is now correctly set to EDOM on a domain error

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6780

was (silently) resolved.

expm1.3

Michael Kerrisk

errno is now correctly set to ERANGE on a range error

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6788

was (silently) resolved.

fmod.3

Michael Kerrisk

errno is now correctly set to EDOM for the $x==\text{inf}$ domain error

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6784

was (silently) resolved.

insque.3

Michael Kerrisk

Noted `prev == NULL` bug in glibc 2.4 and earlier

As noted by Remi Denis-Courmont, glibc nowadays allows

'prev' to be NULL, as required by POSIX for initializing

a linear list. But in glibc 2.4 and earlier, 'prev' could

not be NULL. Add a BUGS section noting this.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=551201>

Michael Kerrisk

Added info on circular lists, and initializing circular lists

Michael Kerrisk

Added example program

lgamma.3

Michael Kerrisk

glibc 2.10 fixed pole error bug

http://sourceware.org/bugzilla/show_bug.cgi?id=6777
was (silently) resolved.

log2.3

Matthew Flaschen

log2() function does not conform to C89

log2(), log2f(), and log2l() do not conform to C89.

They are defined in C99. See <http://flash-gordon.me.uk/ansi.c.txt>
and

<http://www.schweikhardt.net/identifiers.html>

mq_notify.3

Michael Kerrisk

Factor out generic material that was moved to new sigevent(7) page

pow.3

Michael Kerrisk

errno is now correctly set to ERANGE on a pole error

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6776

was (silently) resolved.

pthread_kill_other_threads_np.3

Michael Kerrisk

CONFORMING TO: Note meaning of "_np" suffix

rand.3

Michael Kerrisk

Clarify description of range of returned value

Michael Kerrisk

Add an example program

Michael Kerrisk

Expand description of rand_r()

random.3

W. Trevor King

Update initstate() return value description to match glibc

readdir.3

Michael Kerrisk

Clarify that "positive error numbers" are listed in ERRORS

rexec.3

Michael Kerrisk

SYNOPSIS: Add header file and feature test macro requirements

sigpause.3

Michael Kerrisk

Correct discussion of

when BSD vs SysV version is used in glibc

sin.3

Michael Kerrisk

errno is now correctly set to EDOM on a domain error

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6781

was (silently) resolved.

tan.3

Michael Kerrisk

errno is now correctly set to EDOM on a domain error

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6782

was (silently) resolved.

wscasecmp.3

wcsncasecmp.3

wcsnlen.3

Michael Kerrisk

Added VERSIONS section

boot.7

Yuri Kozlov

Update list of major Linux distributions

feature_test_macros.7

Michael Kerrisk

Make text on required placement of macros more prominent

Move the text that notes the requirement that feature test macros must be defined before including any header files to the top of the page, and highlight the text further, so that the reader will not miss this point.

pthread.7

signal.7

Michael Kerrisk

Add SEE ALSO reference to new sigevent(7) page

tcp.7

Michael Kerrisk

Clarify header file details for SIOCINQ and SIOCOUTQ

Also note synonymous FIONREAD and TIOCOUTQ.

==== Changes in man-pages-3.28 =====

Released: 2010-10-04, Munich

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Petr Baudis <pasky@suse.cz>

Sam Varshavchik <mrsam@courier-mta.com>

Apologies if I missed anyone!

New and rewritten pages

getaddrinfo_a.3

Petr Baudis

New page documenting getaddrinfo_a()

The page also documents gai_suspend(), gai_cancel(),

and gai_error().

aio.7

Michael Kerrisk

New page providing an overview of POSIX asynchronous I/O

Newly documented interfaces in existing pages

exec.3

Michael Kerrisk

Document execvpe()

This function was added to glibc in version 2.11.

Also various other small rewrites in the page.

New and changed links

gai_cancel.3

gai_error.3

gai_suspend.3

Petr Baudis

New links to new getaddrinfo_a.3 page

error_one_per_line.3

Michael Kerrisk

Fix misnamed link file (was error_on_per_line.3)

execvpe.3

Michael Kerrisk

New link to exec.3

sigstack.3

Michael Kerrisk

New link to sigaltstack.2

No new programs should use sigstack(3). Point the user to the better sigaltstack(2), whose man page briefly mentions sigstack(3).

vlimit.3

Michael Kerrisk

New link to getrlimit.2

No new programs should use vlimit(3). Point the user to the better setrlimit(2), whose man page briefly mentions vlimit(3).

vtimes.3

Michael Kerrisk

New link to getrusage.2

No new programs should use vtimes(3). Point the user to the better getrusage(2), whose man page briefly mentions vtimes(3).

Global changes

Various pages

Michael Kerrisk

Switch to American usage: "-wards" ==> "-ward"

American English uses "afterward" in preference to "afterwards", and so on

chdir.2

chmod.2

chown.2

gethostname.2

getsid.2

pread.2

setpgid.2
sigaltstack.2
stat.2
truncate.2
wait.2
dirfd.3
getsubopt.3
mkdtemp.3
mkstemp.3
siginterrupt.3
strdup.3

Michael Kerrisk

Simplify feature test macro requirements

Changes to individual pages

getrlimit.2

Michael Kerrisk

Add mention of the ancient vlimit() function

getrusage.2

Michael Kerrisk

Add mention of the ancient vtimes()

function

io_cancel.2

io_destroy.2

io_getevents.2

io_setup.2

io_submit.2

Michael Kerrisk

SEE ALSO: add aio(7)

sched_setscheduler.2

Michael Kerrisk

ERRORS: note that NULL 'param' yields EINVAL

stat.2

Michael Kerrisk

Note feature test macro requirements for blkcnt_t and blksize_t

timer_create.2

Michael Kerrisk

Standardize on name 'sevp' for sigevent argument

truncate.2

Michael Kerrisk

Correct and simplify ftruncate() feature test macro requirements

The glibc 2.12 feature test macro requirements for ftruncate() are buggy; see http://sourceware.org/bugzilla/show_bug.cgi?id=12037.

Corrected the requirements in the SYNOPSIS, and added a BUGS section describing the problem in glibc 2.12.

aio_cancel.3

Michael Kerrisk

Add pointer to aio(7) for example program

Refer the reader to aio(7) for a description of the aiocb structure

CONFORMING TO: Add POSIX.1-2008;

add VERSIONS section

aio_error.3

Michael Kerrisk

Wording improvements in RETURN VALUE

Add pointer to aio(7) for example program

Refer the reader to aio(7) for a description of the aiocb structure

CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_fsync.3

Michael Kerrisk

Refer the reader to aio(7) for a description of the aiocb structure

CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_read.3

Michael Kerrisk

Various minor rewordings and additions

Add pointer to sigevent(7) for details of notification of I/O completion

Add pointer to aio(7) for example program

Refer the reader to aio(7) for a description of the aiocb structure

CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_return.3

Michael Kerrisk

Improve description in RETURN VALUE

Add pointer to aio(7) for example program

Refer the reader to aio(7) for a description of the

aiocb structure

CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

aio_suspend.3

Michael Kerrisk

Various additions and rewordings.

Give some arguments more meaningful names.

More explicitly describe the 'nitems' argument.

Explicitly note that return is immediate if an I/O operation

has already completed.

Note that `aio_error(3)` should be used to scan the `aiocb` list after a successful return.

Add references to other relevant pages.

Various other pieces rewritten.

Refer the reader to `aio(7)` for a description of the `aiocb` structure

CONFORMING TO: Add POSIX.1-2008; add VERSIONS section

`aio_write.3`

Michael Kerrisk

Add pointer to `sigevent(7)` for details of notification of I/O completion

Various minor rewordings and additions

Refer the reader to `aio(7)` for a description of the `aiocb` structure

CONFORMING TO: Add POSIX.1-2008;

add VERSIONS section

`clearenv.3`

Michael Kerrisk

Fix error in feature test macro requirements

`dysize.3`

Michael Kerrisk

Remove crufty statement about old SCO bug

`exec.3`

Michael Kerrisk

Add feature test macro requirements for `execvpe()`

Rewrite description of `PATH` and mention `_CS_PATH`

Note `execvp()` and `execlp()` behavior for filename containing a slash

`getaddrinfo.3`

Michael Kerrisk

Add SEE ALSO reference to new `getaddrinfo_a.3` page

`gethostbyname.3`

Michael Kerrisk

Fix formatting of feature test macros

`getw.3`

Michael Kerrisk

Fix feature test macros

`malloc.3`

Landijk

Remove editorializing comments on memory overcommitting

See https://bugzilla.kernel.org/show_bug.cgi?id=19332

Michael Kerrisk

Various minor reorganizations and wording fix-ups

mq_notify.3

Michael Kerrisk

Standardize on name 'sevp' for sigevent argument

nl_langinfo.3

Michael Haardt

Make it clear that nl_langinfo() interacts with setlocale()

Add an example program

posix_openpt.3

Michael Kerrisk

Fix feature test macro requirements

rand.3

Michael Kerrisk

Remove duplicate #include in example program

strtok.3

Petr Baudis

Add reference to strtok() example in getaddrinfo(3)

inotify.7

Michael Kerrisk

Added section noting limitations and caveats of inotify

sigevent.7

Michael Kerrisk

Add SEE ALSO reference to new getaddrinfo_a.3 page

Add SEE ALSO referring to new aio(7) page

suffixes.7

Michael Kerrisk

Change explanation of ".rpm" to "RPM software package"

==== Changes in man-pages-3.29 =====

Released: 2010-10-19, Detroit

Contributors

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Apologies if I missed anyone!

New and rewritten pages

subpage_prot.2

Michael Kerrisk

New page documenting the PowerPC-specific subpage_prot(2)

aio_init.3

Michael Kerrisk

New page documenting aio_init(3)

Newly documented interfaces in existing pages

posix_fadvise.2

Michael Kerrisk

Document the architecture-specific arm_fadvise64_64() system call
This ARM-specific system call fixes the argument ordering
for that architecture. Since Linux 2.6.14.

sync_file_range.2

Michael Kerrisk

Document the architecture-specific sync_file_range2() system call
As described in commit edd5cd4a9424f22b0fa08bef5e299d41befd5622,
the sync_file_range() argument order is broken for some
architectures (PowerPC, ARM, tile). The remedy was a different
system call using the right argument order on those architectures.

psignal.3

Guillem Jover

Document psiginfo()

psiginfo() was added to glibc in version 2.10.

Michael Kerrisk

Add details, VERSIONS, and BUGS for psiginfo()

ip.7

Balazs Scheidler

Document IP_RECVORIGDSTADDR

Document IP_TRANSPARENT

Michael Kerrisk

Document IP_FREEBIND

Text based on input from Lennart Poettering and Balazs Scheidler.

See https://bugzilla.kernel.org/show_bug.cgi?id=20082

New and changed links

arm_fadvise64_64.2

Michael Kerrisk

New link to posix_fadvise.2

arm_sync_file_range.2,

sync_file_range2.2

Michael Kerrisk

New links to sync_file_range.2

arm_fadvise.2

Michael Kerrisk

New link to posix_fadvise.2

psiginfo.3

Guillem Jover

New link to psignal.3

Global changes

Many pages

Michael Kerrisk

global fix: s/Unix/UNIX/

The man pages were rather inconsistent in the use of "Unix" versus "UNIX". Let's go with the trademark usage.

Various pages

Michael Kerrisk

Global fix: s/pseudo-terminal/pseudoterminal/

grantpt.3, ptsname.3, unlockpt.3, pts.4

Michael Kerrisk

Global fix: s/pty/pseudoterminal/

recv.2, cmsg.3, unix.7

Michael Kerrisk

global fix: s/UNIX socket/UNIX domain socket/

fmtmsg.3, gethostbyname.3, termios.3

Michael Kerrisk

Global fix: s/Unixware/UnixWare/

Changes to individual pages

inotify_rm_watch.2

Michael Kerrisk

SYNOPSIS: fix type of 'wd' argument

posix_fadvise.2

Michael Kerrisk

Rewrite VERSIONS, noting that the system call is fadvise64()

syscalls.2

Michael Kerrisk

Add the PowerPC-specific subpage_prot() system call

Add sync_file_range2()

truncate.2

Michael Kerrisk

Fix feature test macros

aio_cancel.3

aio_error.3

aio_fsync.3

aio_read.3

aio_return.3

aio_suspend.3

aio_write.3

Michael Kerrisk

SEE ALSO: Add lio_listio(3)

gai_cancel.3

gai_error.3

gai_suspend.3

Michael Kerrisk

Make these into links

In the previous release, these files were accidentally made copies of `getaddrinfo_a.3`, instead of being made as link files.

getifaddrs.3

Thomas Jarosch

Prevent possible NULL pointer access in example program

malloc.3

Michael Kerrisk

Emphasize that `malloc()` and `realloc()` do not initialize allocated memory

malloc_hook.3

Ivana Varekova

Warn that these functions are deprecated

strcpy.3

Michael Kerrisk

Formatting

fixes in `strncpy()` example implementation code

ip.7

Michael Kerrisk

Reword NOTES on Linux-specific options

sigevent.7

Michael Kerrisk

SEE ALSO: Add `aio_read(3)`, `aio_write(3)`, and `lio_listio(3)`

unix.7

Michael Kerrisk

Document the autobind feature

Michael Kerrisk

Fix description of abstract socket names

As reported by Lennart Poettering:

The part about "abstract" sockets is misleading as it suggests that the `sockaddr` returned by `getsockname()` would necessarily have the size of `sizeof(struct sockaddr)`, which however is not the case: `getsockname()` returns exactly the `sockaddr` size that was passed in on `bind()`. In particular, two sockets that are bound to the same `sockaddr` but different sizes are completely independent.

See https://bugzilla.kernel.org/show_bug.cgi?id=19812

Michael Kerrisk

Fix description of "pathname" sockets

As reported by Lennart Poettering:

The part about "pathname" sockets suggests usage of `sizeof(sa_family_t) + strlen(sun_path) + 1`

for calculating the sockaddr size. Due to alignment/padding this is probably not a good idea. Instead, one should use `offsetof(struct sockaddr_un, sun_path) + strlen() + 1` or something like that.
See https://bugzilla.kernel.org/show_bug.cgi?id=19812

===== Changes in man-pages-3.30 =====

Released: 2010-11-01, Munich

Contributors

The following people contributed notes, ideas, or patches that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

kexec_load.2

Andi Kleen

New page documenting kexec_load(2)

Michael Kerrisk

Add license

Michael Kerrisk

Incorporate fixes from Eric W. Biederman

Eric noted that a few instances of "virtual" should be "physical" and noted:

There is an expectation that at hand off from sys_kexec that virtual and physical addresses will be identity mapped. But this isn't the old Alpha booting convention where you have a virtual address and then you have to parse the page table to figure out where your kernel was actually loaded.

Michael

Kerrisk

Additions and edits by mtk

Various wording and layout improvements.

Fixed the name of a constant: s/KEXEC_ARCH_I386/KEXEC_ARCH_386/.

Added RETURN VALUE and ERRORS sections.

Added VERSIONS section

Note that CONFIG_KEXEC is needed

Removed details of using syscall; the reader can find them in syscall(2).

Added some details for KEXEC_PRESERVE_CONTEXT.

Revised the text mentioning the kernel header, since it is not yet exported, and it's not certain that it will be.

lio_listio.3

Michael Kerrisk

New page documenting lio_listio(3)

Newly documented interfaces in existing pages

reboot.2

Andi Kleen

Document LINUX_REBOOT_KEXEC

Some fix-ups by Michael Kerrisk

Michael Kerrisk

Place 'cmd' values in alphabetical order.

unshare.2

Michael Kerrisk

Document

CLONE_NEWIPC

Michael Kerrisk

Document CLONE_NEWNET

Lucian Adrian Grijincu

Improve description of CLONE_NEWNET

CLONE_NEWNET creates a new network namespace from scratch.

You don't have anything from the old network namespace in the new one. Even the loopback device is new.

Michael Kerrisk

Document CLONE_SYSVSEM

Michael Kerrisk

Document CLONE_NEWUTS

Michael Kerrisk

Relocate discussion of CAP_SYS_ADMIN to CLONE_NEWNS section

And rewrite the EPERM description to be more general in preparation for the new flags to be documented.

Global changes

Various pages

Michael Kerrisk

Add reference to feature_test_macros(7)

Some pages simply list feature test macro requirements in the form:

```
#define #GNU_SOURCE
#include <someheader.h>
```

For these pages, add a "See feature_test_macros(7)" comment on the "#define" line.

Various pages

Michael Kerrisk

SEE ALSO: Remove redundant reference to feature_test_macros(7)

Various pages

David Prevot

Use greater consistency in NAME line
(Remove definite article at start of descriptive clause.)

Various pages

Michael Kerrisk

SEE ALSO: Place entries in correct order

Various pages

Michael Kerrisk

ERRORS: Place entries in correct order

Various pages

Michael Kerrisk

Add section number to references to functions documented in other pages

Various pages

Michael Kerrisk

Remove redundant section number in page references

Remove section number in function references that are for functions documented on this page.

armSCII-8.7

iso_8859-3.7

iso_8859-4.7

iso_8859-5.7

iso_8859-6.7

iso_8859-10.7

iso_8859-11.7

iso_8859-13.7

iso_8859-14.7

koi8-u.7

David Prevot

Capitalize hexadecimal numbers

Changes to individual pages

access.2

Michael Kerrisk

Note use of `faccessat(2)` for checking symbolic link permissions

Michael Kerrisk

Give an example of a safer alternative to using `access()`

clone.2

Michael Kerrisk

Clarify when `CLONE_NEWNET` implementation was completed

faccessat.2

Michael Kerrisk

Note that `faccessat()` is racy

fcntl.2

Michael Kerrisk

RETURN VALUE: Improve description of `F_GETFD` and `F_GETFL`

inotify_add_watch.2

Michael Kerrisk

Document `ENOENT` error

mlock.2

Michael Kerrisk

Improve wording describing `/proc/PID/status/VmLck` field

Michael Kerrisk

`shmctl()` `SHM_LOCKed` memory is not included in `VmLck`

reboot.2

Michael Kerrisk

Place 'cmd' values in alphabetical order

subpage_prot.2

Michael Kerrisk

Change 1-line page description

Michael Kerrisk

Improvements after review by Paul Mackerras

timer_settime.3

Michael Kerrisk

Remove redundant

SEE ALSO reference

euidaccess.3

Michael Kerrisk

Note the use of faccessat(2) to operate on symbolic links

Michael Kerrisk

Note that the use of euidaccess() is racy

fenv.3

Michael Kerrisk

Clarify wording relating to glibc version

getgrent.3

getgrent_r.3

getgrnam.3

Michael Kerrisk

Refer reader for group(5) for more info on group structure

getopt.3

Bernhard Walle

Use constants in getopt_long() example

The description of getopt_long() mentions the constants
required_argument, no_argument and optional_argument.

Use them in the example to make the code easier to understand.

getpw.3

Michael Kerrisk

Change comment describing pw_gecos

getpw.3

getpwent.3

getpwent_r.3

Michael Kerrisk

Refer reader to passwd(5) for more info on the passwd structure

getpwent.3

getpwnam.3

Michael Kerrisk

Note that pw_gecos is not in POSIX

And change the comment describing
this field

getpwent_r.3

Michael Kerrisk

Change comment describing pw_gecos

getpwnam.3

Michael Kerrisk

Some rewording and restructuring

sched_getcpu.3

Michael Kerrisk

Fix feature test macro requirements

strlen.3

Michael Kerrisk

Fix feature test macro requirements

group.5

Michael Kerrisk

Various minor rewordings

hosts.5

protocols.5

spufs.7

termio.7

David Prevot

Remove definite article from NAME section

Please find inline another tiny patch in order to shrink
the definite article from some other pages (found with
"rgrep -i '\\|- the' man*").

passwd.5

Michael Kerrisk

Various minor rewordings

proc.5

Michael Kerrisk

Add reference to mlock(2) for further info on /proc/PID/status VmLck

armscii-8.7

David Prevot

Write the character set name as ArmSCII

cp1251.7

David Prevot

Capitalize hexadecimal numbers

ip.7

David Prevot

Fix name of socket option: s/IP_TTL/IP_TRANSPARENT/

David Prevot

Place socket options in alphabetical order

koi8-r.7

David Prevot

Fix special character names

Comparing to koi8-u.7, I noticed some inconsistencies in special character names. After checking with the following Unicode related pages, please find inline (and gzipped attached, hopefully not messing with encoding), a patch in order to make it right, on an Unicode point of view.

<http://www.unicode.org/charts/PDF/U2500.pdf>

<http://www.unicode.org/charts/PDF/U25A0.pdf>

<http://www.unicode.org/charts/PDF/U0080.pdf>

<http://www.unicode.org/charts/PDF/U1D400.pdf>

David Prevot

Fix SEE ALSO reference and letter names

The koi8-r(7) (Russian Net Character Set) manual page refers to iso-8859-7(7) manual page, which is the Latin/Greek one.

I guess it should

refer instead to the iso-8859-5(7)

(Latin/Cyrillic) one. This is addressed at the end of the patch.

It has also been spotted that letter names are different in this manual page and in the Unicode related page [0], the first part of the page address this.

0: <http://www.unicode.org/charts/PDF/U0400.pdf>

man-pages.7

Michael Kerrisk

Update example

The old example used the chmod(2) man page, but the feature test macro requirements on that page had changed.

Update to use an example from a different page (acct(2), whose feature test macro requirements are probably unlikely to change in the future).

Released: 2010-11-12, Munich

Contributors

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

getrlimit.2

Michael Kerrisk

Added documentation of prlimit()

prlimit() is new in kernel 2.6.36.

inotify.7

Michael Kerrisk

Document IN_EXCL_UNLINK

This flag was added in Linux 2.6.36.

See kernel commit 8c1934c8d70b22ca8333b216aec6c7d09fdbd6a6.

New and changed links

prlimit.2

Michael Kerrisk

New link to getrlimit.2

Changes to individual pages

getrlimit.2

Michael Kerrisk

Remove unneeded text in DESCRIPTION

intro.2

Michael Kerrisk

Added various pages to SEE ALSO

kexec_load.2

Michael Kerrisk

Add kernel

version where KEXEC_PRESERVE_CONTEXT first appeared

Added kernel version number where KEXEC_ON_CRASH first appeared

Fix copyright

Make copyright in the name of Intel corporation

VERSIONS: Fix version number

kexec_load() was first implemented in 2.6.13, though the entry in the system call table was reserved starting in 2.6.7.

migrate_pages.2

Michael Kerrisk

SEE ALSO: Add reference to Documentation/vm/page_migration

sched_setaffinity.2

Michael Kerrisk

Add missing word "real" to "user ID"

syscalls.2

Michael Kerrisk

Fix kernel version number for kexec_load

kexec_load() was first implemented in 2.6.13, though the entry in the system call table was reserved starting in 2.6.7.

Michael Kerrisk

Add prlimit() to list

intro.3

Michael Kerrisk

Added various pages to SEE ALSO

printf.3

Michael Kerrisk

Formatting fixes in example code

hostname.7

Michael Kerrisk

Small improvement to description of domains

See: https://bugzilla.novell.com/show_bug.cgi?id=651900

Released: 2010-12-03, Munich

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Apologies if I missed anyone!

New and rewritten pages

pthread_sigqueue.3

Michael Kerrisk

New page documenting pthread_sigqueue()

pthread_sigqueue() is new in glibc 2.11 (requires a kernel with
rt_tgsigqueinfo(), added in Linux 2.6.31).

Newly documented interfaces in existing pages

readv.2

Michael Kerrisk

Add documentation of preadv() and pwritev()

The preadv() and pwritev() system calls were added in
Linux 2.6.30.

New and changed links

preadv.2

Michael Kerrisk

New link to readv.2

pwritev.2

Michael Kerrisk

New link to readv.2

Changes to individual pages

chdir.2

Michael Kerrisk

Remove redundant and incorrect info on FTMs from NOTES

chown.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

clock_nanosleep.2

Michael Kerrisk

Clarify that clock_nanosleep() suspends the calling *thread*

epoll_create.2

Michael Kerrisk

Note that 'size' argument must be greater than 0

See https://bugzilla.kernel.org/show_bug.cgi?id=23872

Michael Kerrisk

Added VERSIONS section

epoll_ctl.2

Michael Kerrisk

Added VERSIONS section

epoll_wait.2

Michael Kerrisk

Updated VERSIONS section

fcntl.2

Michael Kerrisk

Add notes on fcntl64()

fstatat.2

Michael Kerrisk

Add NOTES on fstatat64(), the name of the underlying system call

getdents.2

Michael Kerrisk

Added notes on getdents64()

getgid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

getgroups.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

getpagesize.2

Michael Kerrisk

Improve description of getpagesize()

Improve description of getpagesize() and relocate discussion of sysconf(_SC_PAGESIZE).

In part inspired by

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=537272>

getresuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

getrlimit.2

Michael Kerrisk

Add example program for prlimit()

getuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

open.2

Ivana Hutarova Varekova

O_EXCL can be used without O_CREAT for block devices

Since Linux 2.6 there is a possibility to use O_EXCL without O_CREAT. See patch: <http://lkml.org/lkml/2003/8/10/221>.

pread.2

Michael Kerrisk

Add notes on pread64() and pwrite64()

See https://bugzilla.kernel.org/show_bug.cgi?id=23072

Michael Kerrisk

SEE ALSO: add readv(3)

readv.2

Michael Kerrisk

Wording fix: readv() and writev() are system calls, not functions

sendfile.2

Michael Kerrisk

Add notes on sendfile64()

setfsuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls
added in Linux 2.4

setfsuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

setgid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

setresuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

setreuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

setuid.2

Michael Kerrisk

Add NOTES explaining 32-bit system calls added in Linux 2.4

sigqueue.2

pthread.7

signal.7

Michael Kerrisk

SEE ALSO: Add pthread_sigqueue(3)

stat.2

Michael Kerrisk

Fix EOVERFLOW error description
2<<31 should read 1<<31 (which equals 2^31).

statfs.2

Michael Kerrisk

Add notes on statfs64() and fstatfs64()

swapon.2

Hugh Dickins

Document SWAP_FLAG_DISCARD and discarding of swap pages

truncate.2

Michael Kerrisk

Add notes on truncate64() and ftruncate64()

memcpy.3

Michael Kerrisk

Change "should not overlap" to "must not overlap"

glibc 2.12 changed things so that applications that use memcpy() on overlapping regions will encounter problems. (The standards have long said that the behavior is undefined if the memory areas overlap.)

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=603144>

In reference of <http://lwn.net/Articles/414467/>

and <http://article.gmane.org/gmane.comp.lib.glibc.alpha/15278>

usleep.3

Petr Uzel

usleep() suspends calling thread, not process

core.5

Michael Kerrisk

Change single quote to double quote in shell session example

The example section has a sample shell session containing:

```
echo '$PWD/core_pattern_pipe_test %p UID=%u GID=%g sig=%s'
```

But \$PWD won't be expanded in single quotes. It should be double quotes around the entire argument or some other form.

pthread.7

Michael Kerrisk

Added description of async-cancel-safe functions

unix.7

Michael Kerrisk

Reworded the text of various errors

Michael Kerrisk

Added ENOENT error

==== Changes in man-pages-3.33 =====

Released: 2011-09-16, Munich

Contributors

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

sync.2

Michael Kerrisk

Added new syncfs() system call
syncfs() was added in Linux 2.6.39.

New and changed links

syncfs.2

Michael Kerrisk

New link for sync(2).

Global changes

Various pages

Simon Paillard

Global fix: properly escape minus sign

Changes to individual pages

clone.2

Michael Kerrisk

Note that CLONE_STOPPED was removed in 2.6.38

execve.2

Michael Kerrisk [Sebastian Geiger]

Note that the first argv[] value should contain name of executable

fcntl.2

Michael Kerrisk [Reuben Thomas]

Note that F_GETFL also retrieves file access mode

getrlimit.2

Michael Kerrisk [Ryan Mullen]

Remove mention of kernel versions in discussion of RLIMIT_CPU

Michael Kerrisk [Seonghun Lim]

Fix example program and add `_FILE_OFFSET_BITS` requirement

mlock.2

Michael Kerrisk [Brian M.

Carlson]

Clarify EINVAL error

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?625747>

Michael Kerrisk [Seonghun Lim]

Simplify and correct text for EPERM error

mprotect.2

Seonghun Lim

Fix off-by-one error in a memory range

Seonghun Lim

Fix small bug in example program

The description of the example program says that it makes the third page "read-only". Thus use `PROT_READ` instead of `PROT_NONE`.

open.2

Folkert van Heusden

Remove text describing `O_CLOEXEC` as Linux-specific

`O_CLOEXEC` is specified in POSIX.1-2008, as noted elsewhere in the page.

readlink.2

Michael Kerrisk [Dan Jacobson]

SEE ALSO: Add `readlink(1)`

sendfile.2

Akira Fujita

Since 2.6.33, 'out_fd' can refer to any file type

Linux kernel commit [cc56f7de7f00d188c7c4da1e9861581853b9e92f](https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=cc56f7de7f00d188c7c4da1e9861581853b9e92f) meant `sendfile(2)` can work with any output file.

Michael Kerrisk

Shift

text on falling back to `read()/write()` to NOTES

Michael Kerrisk [Tolga Dalman]

Remove mention of kernel version for 'in_fd' argument

Tolga Dalman

Add an explicit reference to `splice(2)`

Unlike `sendfile()`, `splice()` can transfer data between a pair of sockets.

sigaction.2

Michael Kerrisk [Tolga Dalman]

Add a little info about `ucontext_t`

stat.2

Michael Kerrisk [Jon Grant]

Small rewording of ENAMETOOLONG error

sync.2

Michael Kerrisk

Some rewrites to description of sync()

syscalls.2

Michael Kerrisk

Added fanotify_init() and fanotify_mark() to syscall list

Michael Kerrisk

Added new 2.6.39 system calls

Michael Kerrisk

Updated for Linux 3.0 system calls

Michael Kerrisk

Update kernel version at head of syscall list

Michael Kerrisk

Update to mention 3.x kernel series

syslog.2

Michael Kerrisk [Serge E. Hallyn]

Update for kernel 2.6.37

changes

Document /proc/sys/kernel/dmesg_restrict.

Document CAP_SYSLOG.

time.2

Michael Kerrisk [Alexander Schuch]

NOTES: Fix description of "Seconds since the Epoch"

timerfd_create.2

Michael Kerrisk [Josh Triplett]

Note behavior when timerfd_settime() old_value is NULL

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?641513>

Tomislav Jonjic

Fix small error in description of timerfd_settime()

truncate.2

Seonghun Lim

Remove redundant EINTR description

unlink.2

Hendrik Jan Thomassen

Improve EBUSY description

cacos.3

cacosh.3

catan.3

catanh.3

Michael Kerrisk [Richard B. Kreckel, Andries Brouwer]

Fix formula describing function

The man pages for `cacos()`, `cacosh()`, `catan()`, `catanh()` contain incorrect formulae describing the functions.

cacos.3

Michael Kerrisk

Add example program

cacosh.3

Michael Kerrisk

Add example program

cacosh.3

casinh.3

catan.3

catanh.3

Michael Kerrisk

SEE ALSO: Add reference to inverse function

catan.3

Michael Kerrisk

Add example program

catanh.3

Michael Kerrisk

Add example program

ccos.3

ccosh.3

csin.3

csinh.3

ctan.3

ctanh.3

Michael Kerrisk

SEE ALSO Add reference to "arc" inverse function

cexp.3

Michael Kerrisk

SEE ALSO: add `cexp(3)`

clog.3

Michael Kerrisk

SEE ALSO: Add reference to `clog(2)`

crypt.3

Michael Kerrisk [Jan Engelhardt]

Fix header file and feature test macro requirements for crypt_r()

err.3

Seonghun Lim

Clean up description of error message source

In the second paragraph of DESCRIPTION section, one of the sources of error messages is incorrect: the four functions obtain error message only from errno, and "a code" is just relevant with errc() and warnc(), which are not present on Linux.
see <http://www.unix.com/man-page/freebsd/3/ERR/>

Then, the third paragraph becomes a duplicate.

fflush.3

Regid Ichira

Fix wording error

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?614021>

hsearch.3

Seonghun Lim

Update ERRORS section

EINVAL can occur for hdestroy_r().

EINVAL can't occur for hcreate().

Other minor fixes.

lockf.3

Michael Kerrisk [Mikel Ward]

ERRORS: EBADF can also occur for nonwritable file descriptor

As noted in the DESCRIPTION, the file descriptor must be writable in order to place a lock.

malloc.3

Seonghun Lim

Reorder prototypes in SYNOPSIS

calloc() comes before realloc() in the other sections, so should do in SYNOPSIS, too.

mbstowcs.3

Michael Kerrisk

SEE ALSO: add reference to wcstombs(3)

memcmp.3

Michael Kerrisk [Sebastian Unger]

Clarify that comparison interprets bytes as "unsigned char"

realpath.3

Michael

Kerrisk [Seonghun Lim]

Fix EINVAL error

Since glibc 2.3, resolved_path can be non-NULL (with the semantics already documented in the page).

scandir(3)

Mike Frysinger

Add ENOENT/ENOTDIR errors

siginterrupt.3

Michael Kerrisk [Luis Javier Merino]

Remove misleading sentence about signal(2) and system call interruption

strlen.3

Michael Kerrisk [Jon Grant]

SEE ALSO: Add strlen(3)

strnlen.3

Michael Kerrisk [Jon Grant]

CONFORMING TO: Note that strnlen() is in POSIX.1-2008

strtoul.3

Michael Kerrisk [Tolga Dalman]

Fix NOTES section constants

termios.3

Michael Kerrisk

Use "terminal special characters" consistently throughout page

Michael Kerrisk [Paul Evans]

Add documentation of _POSIX_VDISABLE

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=627841>

Michael Kerrisk

Add a description of STATUS character

Michael Kerrisk

Added description

of SWTCH character

Michael Kerrisk

Add names of terminal special characters

Michael Kerrisk

List terminal special characters in alphabetical order

wcstombs.3

Michael Kerrisk

SEE ALSO: add mbstowcs(3)

console_codes.4

Petr Písar

Add ESC [3 J

Linux 3.0 (commit f8df13e0a901fe55631fed66562369b4dba40f8b)
implements \E[3J to allow scrambling content of console
including scroll-back buffer
(<http://thread.gmane.org/gmane.linux.kernel/1125792>).

proc.5

Michael Kerrisk [Stan Sieler]

Add description of 'PPid' field of /proc/PID/status

Michael Kerrisk [Stan Sieler]

Add description of 'SigQ' field of /proc/PID/status

capabilities.7

Michael Kerrisk [Serge E. Hallyn]

Document CAP_SYSLOG and related changes in Linux 2.6.37

Michael Kerrisk

File capabilities are no longer optional

Starting with Linux 2.6.33, the CONFIG_SECURITY_FILE_CAPABILITIES
has been removed, and file capabilities are always part of the
kernel.

complex.7

Michael Kerrisk

Updated SEE ALSO list to include all complex math functions

ipv6.7

Michael Kerrisk [Simon Cross]

Fix description of address notation: "8 4-digit hexadecimal numbers"

signal.7

Seonghun Lim

Remove crufty repeated info about LinuxThreads

unix.7

Michael Kerrisk

Add pointer to cmsg(3) for an example of the use of SCM_RIGHTS

==== Changes in man-pages-3.34 =====

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Apologies if I missed anyone!

New and rewritten pages

rt_sigqueueinfo.2

Michael Kerrisk [Stephan Mueller]

New page for rt_sigqueueinfo(2) and rt_tgsigqueueinfo(2)

This replaces the previous '.so' man page link file for
rt_sigqueueinfo.2, which linked to this sigqueue() man page.

cciss.4

Stephen M. Cameron

New man page for cciss driver

I obtained the information in this man page as a consequence
of having worked on
the cciss driver for the past several years,
and having written considerable portions of it.

Michael Kerrisk

Copyedit by mtk

hpsa.4

Stephen M. Cameron

New man page for the hpsa driver

I obtained the information in this man page as a consequence
of being the main author of the hpsa driver.

Michael Kerrisk

Copyedits my mtk

Newly documented interfaces in existing pages

fstatat.2

Michael Kerrisk [David Howells]

Document AT_NO_AUTOMOUNT

This flag was added in Linux 2.6.38.

lseek.2

Michael Kerrisk [Eric Blake, Sunil Mushran]

Document SEEK_HOLE and SEEK_DATA

These flags, designed for discovering holes in a file,
were added in Linux 3.1. Included comments from Eric
Blake and Sunil Mushran.

madvise.2

Doug Goldstein

Add MADV_HUGEPAGE and MADV_NOHUGEPAGE

Document the MADV_HUGEPAGE
and MADV_NOHUGEPAGE flags added to
madvise() in Linux 2.6.38.

New and changed links

rt_tsigqueueinfo.2

Michael Kerrisk

New link to new rt_tsigqueueinfo.2 page

sigqueue.2

Michael Kerrisk

Create link to page that was relocated to section 3

Global changes

Various pages

Michael Kerrisk

Change reference to "sigqueue(2)" to "sigqueue(3)"

Changes to individual pages

fallocate.2

Michael Kerrisk

ERRORS: Add EPERM and ESPIPE errors

lseek.2

Michael Kerrisk [Alan Curry, Reuben Thomas]

Remove suspect note about 'whence' being incorrect English

prctl.2

Paul Pluzhnikov

PR_SET_DUMPABLE makes process non-pttrace-attachable

readlink.2

Guillem Jover

Document using st_size to allocate the buffer

Michael Kerrisk

Added copyright text + changelog note for Guillem Jover's patch

sched_setscheduler.2

Michael Kerrisk

Document 2.6.39 changes to rules governing changes from SCHED_IDLE policy

Since Linux 2.6.39, unprivileged processes under the SCHED_IDLE policy can switch to another nonrealtime policy if their nice value falls within the range permitted by their RLIMIT_NICE limit.

tkill.2

Michael Kerrisk

SEE ALSO: Add rt_sigqueueinfo (2)

btowc.3, wctob.3

Michael Kerrisk [Brian M. Carlson]

Add pointers to better, thread-safe alternative functions

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=606899>

fwide.3

Michael Kerrisk

Add _ISOC95_SOURCE to feature test macro requirements

Since glibc 2.12, _ISOC95_SOURCE can also be used to expose prototype of this function.

index.3

Michael Kerrisk [Jon Grant]

Fix text mentioning terminating null

pthread_sigqueue.3

Michael Kerrisk

Replace explicit mention of `rt_tgsigqueueinfo()` with SEE ALSO reference

sigqueue.3

Michael Kerrisk

Move this page to section 3

Now that the underlying system call `rt_sigqueueinfo(2)` is properly documented, move `sigqueue()` to Section 3, since it is really a library function.

Michael Kerrisk

Update text in line with existence of new `rt_sigqueueinfo.2` page

wcsnlen.3

Jon Grant

Improve description of 'maxlen' argument

It's worth clarifying 'maxlen' is in wide-char units, not bytes.

wprintf.3

Michael Kerrisk

Add `_ISOC95_SOURCE` to feature test macro requirements

Since glibc 2.12, `_ISOC95_SOURCE` can also be used to expose prototype of these functions.

feature_test_macros.7

Michael Kerrisk

Document `_ISOC95_SOURCE`

`_ISOC95_SOURCE` was added in glibc 2.12 as a means to expose C90 Amendment 1 definitions.

ip.7

Benjamin Poirier [Neil Horman]

Improve description of `IP_MTU_DISCOVER`

signal.7

Michael Kerrisk

SEE ALSO: Add `rt_sigqueueinfo(2)`

==== Changes in man-pages-3.35 =====

Released: 2011-10-04, Munich

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Mike Frysinger <vapier@gentoo.org>
Reuben Thomas <rrt@sc3d.org>

Apologies if I missed anyone!

New and rewritten pages

recvmmsg.2

Andi Kleen, Michael Kerrisk
New man page for recvmmsg(2)

setns.2

Eric W. Biederman
New manual page for setns(2)
Michael Kerrisk
Various improvements

Global changes

Various
pages

Michael Kerrisk
Global fix: remove spaces around em-dash
Normal English typographical convention is not to have
spaces around em dashes.

Various pages

Michael Kerrisk
Global fix: s/null pointer/NULL pointer/

Various pages

Michael Kerrisk

Global fix: use ORing

Use "ORing", not "OR'ing", nor an italic ".IR OR ing".

Various pages

Michael Kerrisk

Global fix: consistent use of "null wide character"

Bring more consistency to the discussion of

"[terminating] null wide character"

by writing (at least in the initial use in a page)

"[terminating] null wide character (L'\0)".

Various pages

Michael Kerrisk

Global fix: consistent use of "null byte"

Bring more consistency to the discussion of

"[terminating] null byte"

by writing (at least in the initial use in a page)

"[terminating] null

byte ('\0)".

mount.2, prctl.2

Michael Kerrisk

s/task/thread/ for consistency with other pages

Changes to individual pages

lseek.2

Guillem Jover

CONFORMING TO: Note other systems that have SEEK_HOLE+SEEK_DATA

recv.2

Michael Kerrisk

Add mention of recvmmsg(2)

recvmmsg.2

Michael Kerrisk

SEE ALSO: add sendmmsg(2)

send.2

Michael Kerrisk

CONFORMING TO: POSIX.1-2008 adds MSG_NOSIGNAL

sigwaitinfo.2

Michael Kerrisk

Note that attempts to wait for SIGKILL and SIGSTOP are silently ignored

stat.2

Michael Kerrisk

Note POSIX.1-2001 and POSIX.1-2008 requirements for lstat()

Michael Kerrisk

Regarding automounter action, add a reference to fstatat(2)

Michael Kerrisk

Clean up text describing which POSIX describes S_IF* constants

aio_cancel.3

Michael Kerrisk [Jon Grant]

Clarify meaning of "return status" and "error status"

gets.3

Michael Kerrisk

POSIX.1-2008 marks gets() obsolescent

The page formerly erroneously stated that POSIX.1-2008 removed the specification of this function.

mbsnrtowcs.3

Michael Kerrisk

CONFORMING TO: Add POSIX.1-2008

This function is specified in the POSIX.1-2008 revision.

regex.3

Michael Kerrisk [Reuben Thomas]

Change "terminating null" to "terminating null byte"

stpncpy.3

stpncpy.3

Mike Frysinger

Note that these functions are in POSIX.1-2008

Update the "CONFORMING TO" sections of these functions to note that they are now part of the POSIX.1-2008 standard.

stpncpy.3

Michael Kerrisk

Change "terminating null" to "terminating null byte"

strep.3

Mike Frysinger

SEE ALSO: Add stpncpy(3)

strdup.3

Michael Kerrisk

CONFORMING TO: strdup() is in POSIX.1-2008

wcpcpy.3

wcpcpy.3
wcsnlen.3
wcsnrtoombs.3

Michael Kerrisk

CONFORMING TO: Add POSIX.1-2008

These functions are specified in the POSIX.1-2008 revision.

proc.5

Eric W. Biederman

Document /proc/[pid]/ns/

Michael Kerrisk

Some edit's to Eric Biederman's /proc/[pid]/ns/ additions

capabilities.7

Michael Kerrisk

List setns(2) as an operation allowed by CAP_SYS_ADMIN

==== Changes in man-pages-3.36 =====

Released: 2012-02-27, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

sendmmsg.2

Michael Kerrisk [Stephan Mueller]

New page for sendmmsg(2)

Some pieces inspired by an initial attempt by Stephan Mueller.

Newly documented interfaces in existing pages

fallocate.2

Lucian Adrian Grijincu

Document FALLOC_FL_PUNCH_HOLE

FALLOC_FL_PUNCH_HOLE was added in Linux 2.6.38,
for punching holes in the allocated space in a file.

Changes

to individual pages

dup.2

Michael Kerrisk

SYNOPSIS: Add "#include <fcntl.h>" for O_* constants

fallocate.2

Michael Kerrisk

Substantial restructuring of DESCRIPTION

The addition of a second class of operation ("hole punching")
to the man page made it clear that some significant restructuring
is required. So I substantially reworked the page, including the
preexisting material on the default "file allocation" operation.

Michael Kerrisk [Josef Bacik]

Add further details for FALLOC_FL_PUNCH_HOLE

Michael Kerrisk

ERRORS: Add EPERM error case for FALLOC_FL_PUNCH_HOLE

fork.2

Michael Kerrisk

NOTES: Describe clone() call equivalent to fork()

fsync.2

Christoph Hellwig

Various improvements

- explain the situation with disk caches better
- remove the duplicate fdatasync() explanation in the NOTES section
- remove an incorrect note about fsync() generally requiring two writes
- remove an obsolete ext2 example note
- fsync() works on any file descriptor (doesn't need to be writable); correct the EBADF error code explanation

Michael Kerrisk [Guillem Jover]

Note that some systems require a writable file descriptor

An edited version of Guillem Jover's comments:

[While the file descriptor does not need to be writable on Linux] that's not a safe portable assumption to make on POSIX in general as that behavior is not specified and as such is implementation-specific. Some Unix systems do actually fail on read-only file descriptors, for example [HP-UX and AIX].

mount.2

Michael Kerrisk [Junjiro Okajima]

Removed erroneous statement about MS_RDONLY and bind mounts

open.2

Jessica McKellar

Fix grammar in O_DIRECT description

Some small grammar fixes to the O_DIRECT description.

pipe.2

Michael Kerrisk [Salvo Tomaselli]

SYNOPSIS: Add "#include <fcntl.h>" for O_* constants

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=659750>

sched_rr_get_interval.2

Clemens Ladisch

Update notes on modifying quantum

Since Linux 2.6.24, it is no longer possible to modify the SCHED_RR quantum using setpriority(2). (Slight edits to Clemens' patch by mtk.)

Michael Kerrisk

Reordered various pieces of text

Michael Kerrisk

Reworded text of ESRCH error

send.2

Michael Kerrisk

Add mention of sendmmsg(2)

sync.2

Michael Kerrisk [Simone Piccardi]

PROTOTYPE: Fix return type of syncfs()

vfork.2

Michael Kerrisk [starlight]

Clarify what is duplicated in the child

Add some words to make it clear to the reader that vfork(),
like fork(), creates duplicates of process attributes
in the child.

Michael Kerrisk

Note clone() flags equivalent to vfork()

Michael Kerrisk [starlight, Mike Frysinger]

Add some notes on reasons why vfork() still exists

Michael Kerrisk [starlight]

Clarify that calling *thread* is suspended during vfork()

Michael Kerrisk

CONFORMING TO: Note that POSIX.1-2001 marked vfork() obsolete

gets.3

Michael Kerrisk

Document C11 and glibc 2.16 changes affecting gets()

pthread_sigmask.3

Michael Kerrisk [Pat Pannuto]

Fix comment that was inconsistent with code in example program

sem_wait.3

Walter Harms

EXAMPLE: Remove extraneous line of output from shell session

wcsnrtombs.3

wcsrtombs.3

wcstombs.3

Michael Kerrisk

Fix-ups for e9c23bc636426366d659809bc99cd84661e86464

core.5

Michael Kerrisk [Junjiro Okajima]

Document %E specifier for core_pattern

passwd.5

Michael Kerrisk [Walter Haidinger]

s/asterisk/asterisk

(*)/ to improve clarity

Michael Kerrisk

Correct note on passwd field value when shadowing is enabled

When password shadowing is enabled, the password field contains an 'x' (not '*').

proc.5

Elie De Brauwer

Fix description of fourth field of /proc/loadavg

Signed-off-by: Elie De Brauwer <eliedebrauwer@gmail.com>

resolv.conf.5

Michael Kerrisk [Slaven Rezic]

Describe syntax used for comments

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=656994>

feature_test_macros.7

Michael Kerrisk

Document _ISOC11_SOURCE

inotify.7

Michael Kerrisk [Yang Yang]

Note that 'cookie' field is set to zero when unused

man.7

Michael Kerrisk

Various fixes for description of NAME section

As noted by reporter:

* The code sample given for the NAME section is incomplete because the actual content sample is not given.

* Additionally, the description

assumes that the item described is

a command, which need not be the case.

* The command makewhatis is not present on my system; the documented tool to create the whatis database is called mandb.

* The description on .SH NAME in man(7) should either copy the relevant paragraph of lexgrog(1) or refer to it.

==== Changes in man-pages-3.37 =====

Released: 2012-03-06, Christchurch

Contributors

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Tejun Heo <tj@kernel.org>

Apologies if I missed anyone!

New and rewritten pages

getent.1

Mark R. Bannister

New page to document 'getent' binary provided by glibc

Changes to individual pages

bdflush.2

Michael Kerrisk

Note that bdflush() is deprecated, and does nothing

nfsservctl.2

Michael Kerrisk

Note that this system call was removed in Linux 3.1

ptrace.2

Denys Vlasenko [Oleg Nesterov, Tejun Heo]

add extended description of various ptrace quirks

Changes include:

s/parent/tracer/g, s/child/tracee/g - ptrace interface now is sufficiently cleaned up to not treat tracing process as parent.

Deleted several outright false statements:

- pid 1 can be traced
- tracer is not shown as parent in ps output

- PTRACE_ATTACH is not "the same behavior as if tracee had done a PTRACE_TRACEME": PTRACE_ATTACH delivers a SIGSTOP.
- SIGSTOP _can_ be injected.
- Removed mentions of SunOS and Solaris as irrelevant.
- Added a few more known bugs.

Added a large block of text in DESCRIPTION which doesn't focus on mechanical description of each flag and operation, but rather tries to describe a bigger picture. The targeted audience is a person which is reasonably knowledgeable in Unix but did not spend years working with ptrace, and thus may be unaware of its quirks. This text went through several iterations of review by Oleg Nesterov and Tejun Heo.

This block of text intentionally uses as little markup as possible, otherwise future modifications to it will be very hard to make.

Michael Kerrisk

Global clean-up of page

- * Wording and formatting fixes to existing text and Denys Vlasenko's new text.
- * Various technical amendments and improvements to Denys Vlasenko's new text.
- * Added FIXME for various problems

with the current text.

Michael Kerrisk

Integrated changes after further review from Denys Vlasenko

syscalls.2

Michael Kerrisk

Note that nfsservctl(2) was removed in Linux 3.1

Note that bdflush(2) is deprecated

capabilities.7

Michael Kerrisk

Add CAP_WAKE_ALARM

Michael Kerrisk

Add various operations under CAP_SYS_ADMIN

Add perf_event_open(2) to CAP_SYS_ADMIN

Add VM86_REQUEST_IRQ vm86(2) command to CAP_SYS_ADMIN

Update CAP_NET_ADMIN with notes from include/linux/capability.h

Add nfsservctl(2) to CAP_SYS_ADMIN

Michael Kerrisk

Add ioctl(FIBMAP) under CAP_SYS_RAWIO

Michael Kerrisk

Add virtual terminal ioctl(s) under CAP_SYS_TTY_CONFIG

Michael Kerrisk

Update CAP_NET_RAW with notes from include/linux/capability.h

Michael Kerrisk

Add F_SETPIPE_SZ case to CAP_SYS_RESOURCE

Add POSIX messages queues queues_max case to CAP_SYS_RESOURCE
Update
CAP_SYS_RESOURCE with notes from include/linux/capability.h
Michael Kerrisk
SEE ALSO: Add libcap(3)

ld.so.8
Michael Kerrisk
Add --audit command-line option

===== Changes in man-pages-3.38 =====

Released: 2012-03-25, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

get_nprocs_conf.3

Beas Petr

New page documenting get_nprocs_conf(3) and get_nprocs(3)

Michael Kerrisk

Some additions and improvements

malloc_get_state.3

Michael Kerrisk

New page documenting malloc_get_state(3) and malloc_set_state(3)

mallopt.3

Michael Kerrisk

New man page for mallopt(3)

mtrace.3

Michael Kerrisk

Complete rewrite of page, adding much more detail

scandirat.3

Mark R Bannister

New page for scandirat(3) (new in glibc 2.15)

Newly documented interfaces in existing pages

posix_memalign.3

Michael Kerrisk

Document aligned_alloc(3)

aligned_alloc() is new in C11.

Michael Kerrisk

Document pvalloc(3)

qsort.3

Mark R Bannister

Add documentation of qsort_r(3)

Ben Bacarisse

Improvements to Mark R Bannister's qsort_r() patch

Michael Kerrisk

Add VERSIONS section for qsort_r()

New and changed links

aligned_alloc.3

Michael Kerrisk

New link to posix_memalign.3

get_nprocs.3

Beas Petr

Link to new get_nprocs_conf.3 page

malloc_set_state.3

Michael Kerrisk

Link to new malloc_get_state.3 page

pvalloc.3

Michael Kerrisk

New link to posix_memalign.3

Global changes

Various pages

Michael Kerrisk

Global formatting fix: balance .nf/.fi pairs

Various pages

Michael Kerrisk

Global fix: place sections in correct order

Various pages

Michael Kerrisk [Justin T Pryzby]

Global fix: Remove duplicated words

Remove instances of duplicate words found using Justin's
grep-fu:

```
for f in man?/*.[1-9]; do
```

```
    grep -HE '([[:alpha:]]{2,}+)\1 "$f" |
```

```
        grep -Evw '(proc|hugetlbfs|XXX*|root|long) *\1';
```

```
done | grep -E --colo '([[:alpha:]]{2,}+)\1'
```

Various pages

Michael Kerrisk

Correct order of SEE ALSO entries

Changes to individual pages

futimesat.2

Michael Kerrisk

PROTOTYPE: Correct header file and feature test macro requirements

keyctl.2

Bjarni Ingi Gislason

Strip trailing tabs from source line

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=664688>

ptrace.2

Denys Vlasenko

Document PTRACE_GETEVENTMSG for PTRACE_EVENT_EXEC

Denys Vlasenko

Various fixes to recent updates of this page

symlinkat.2

Michael Kerrisk [Eric Blake]

PROTOTYPE: Correct header file

syscalls.2

Michael Kerrisk

Remove unimplemented system calls from main syscall list

The unimplemented system calls are in any case noted lower

down

in the page. Also: rearrange the text describing the unimplemented system calls.

Michael Kerrisk

Note a few system calls that were removed in Linux 2.6

Michael Kerrisk

Add process_vm_readv(2) and process_vm_writev(2)

unlinkat.2

Michael Kerrisk [Eric Blake]

PROTOTYPE: Correct header file

Michael Kerrisk

PROTOTYPE: Add <fcntl.h> for AT_* constants

utimensat.2

Michael Kerrisk

PROTOTYPE: Add <fcntl.h> for AT_* constants

copysign.3

Michael Kerrisk [Tolga Dalman]

DESCRIPTION: Add a couple of examples

malloc.3

Michael Kerrisk

NOTES: Add a short discussion of arenas

Michael Kerrisk

Replace discussion of MALLOC_CHECK_ with pointer to mallopt(3)

Michael Kerrisk

SEE ALSO: Add mtrace(3)

SEE ALSO: add malloc_get_state(3)

posix_memalign.3

Michael Kerrisk

Rename memalign() argument

Rename "boundary" to "alignment" for consistency
with posix_memalign().

Michael Kerrisk

Improve discussion of feature test macros and header files for valloc(3)

rtnetlink.3

Kirill Brilliantov [Sergei Zhirikov]

Fix example code, rta_len assignment should use RTA_LENGTH()

See also <http://bugs.debian.org/655088>

scandir.3

Mark R Bannister

SEE ALSO: Add scandirat(3)

sigqueue.3

Nix

Remove rt_sigqueueinfo from TH line

rt_sigqueueinfo() now has its own manual page, so should not
be listed in the .TH line of this page.

tzset.3

Peter Schiffer

Correct description for Julian 'n' date format

The Julian 'n' date format counts starting from 0, not 1.

Michael Kerrisk

Add some clarifying remarks to discussion of Julian day formats

packet.7

Michael Kerrisk [Iain Fraser]

Fix comment on 'sll_hatype' field

tcp.7

Michael Kerrisk [Artyom Pervukhin]

Correct RFC for TIME_WAIT assassination

hazards

==== Changes in man-pages-3.39 =====

Released: 2012-04-17, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

malloc_trim.3

Michael Kerrisk

New man page for malloc_trim(3)

malloc_usable_size.3

Michael Kerrisk

New man page for malloc_usable_size(3)

Newly documented interfaces in existing pages

prctl.2

Cyrill Gorcunov

Document PR_SET_MM (new in Linux 3.3)

Michael Kerrisk

Various edits and improvements to Cyrill's patch

Changes to individual pages

epoll_create.2

Michael Kerrisk

Rework discussion of 'size' argument

Michael Kerrisk

Add .SS for description of epoll_create1()

epoll_wait.2

Michael Kerrisk [Armin Rigo]

Another thread can add to epoll instance while epoll_wait is blocked

See https://bugzilla.kernel.org/show_bug.cgi?id=43072

Michael Kerrisk

Clarify that epoll_pwait() blocks calling *thread*

A few wording improvements

fchmodat.2

Michael Kerrisk [Mike Fryssinger]

Note difference between glibc wrapper and underlying system call

The wrapper function has a 'flags' argument (which currently serves no purpose), while the underlying system call does not.

fcntl.2

Abhijith Das

Explain behaviour of F_GETLEASE during lease break

Michael Kerrisk [Eric Blake]

Change type of arg from "long" to "int"

Various fcntl(2) commands require an integral 'arg'.

The man page said it must be "long" in all such cases.

However, for the cases covered by POSIX, there is an explicit requirement that these arguments be "int".

Update the man page to reflect. Probably, all of the other "long" cases (not specified in POSIX) should

be "int", and this patch makes them so. Based on a note from Eric Blake, relating to F_DUPFD_CLOEXEC.

gettimeofday.2

Michael Kerrisk

Reorganize content

The main change is to move the historical information about the 'tz_dsttime' to NOTES.

Michael Kerrisk [Felix]

Note that compiler issues warnings if 'tv' is NULL

mmap.2

Michael Kerrisk [Kevin O'Gorman]

Clarify that this system call should not be invoked directly

See https://bugzilla.kernel.org/show_bug.cgi?id=42892

Michael Kerrisk

Clarify NOTES discussion of mmap() versus mmap2()

poll.2

Michael Kerrisk [Michael Welsh Duggan]

Document negative value in 'fd' field

Michael Kerrisk

Document semantics of passing zero in 'events' field

ptrace.2

Denys Vlasenko

Various fixes

For some reason, the PTRACE_TRACEME paragraph talks about some general aspects of ptraced process behavior. It repeats

the

"tracee stops on every signal" information even though that was already explained just a few paragraphs before. Then it describes legacy SIGTRAP on execve().

This patch deletes the first part, and moves the second part up, into the general ptrace description. It also adds

"If PTRACE_O_TRACEEXEC option is not in effect" to the description of the legacy SIGTRAP on execve().

The patch also amends the part which says "For requests other than PTRACE_KILL, the tracee must be stopped." - PTRACE_ATTACH also doesn't require that.

sigaction.2

Michael Kerrisk [Andreas Jaeger,]

Clarify that the use of SI_SIGIO is for Linux 2.2 only

See also http://sourceware.org/bugzilla/show_bug.cgi?id=6745

sigprocmask.2

Mike Frysinger

ERRORS: add EFAULT

times.2

Michael Kerrisk [Simone Piccardi]

ERRORS: Add EFAULT

div.3

Michael

Kerrisk [Reuben Thomas]

CONFORMING TO: Add C99

fread.3

Regid Ichira

Clarify further that return value is number of items, not bytes

See also <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=665780>

getaddrinfo.3

Michael Kerrisk [Jak]

Correct type of ai_addrln field

malloc.3

Michael Kerrisk

SEE ALSO: add malloc_usable_size(3)

SEE ALSO: Add malloc_trim(3)

mallopt.3

Michael Kerrisk

Fix text describing M_PERTURB and free()

SEE ALSO: Add malloc_trim(3)

memchr.3

Michael Kerrisk [Reuben Thomas]

Remove mention of terminating null in description of rawmemchr()

perror.3

Michael Kerrisk [Jesus Otero]

Note that use of 'sys_errlist' is deprecated

rcmd.3

Michael Kerrisk

glibc eventually added a declaration of iruserok() in version 2.12

sysconf.3

Michael Kerrisk [Ricardo Catalinas Jiménez]

Add mention of _SC_SYMLOOP_MAX

nologin.5

Michael Kerrisk [Tetsuo]

Handa]

nologin must not only exist, but *be readable* to be effective

nsswitch.conf.5

Mark R Bannister

Significant rewrites and improvements

This patch applies to nsswitch.conf.5 in man-pages-3.36.

My changes almost completely rewrite large sections of the man page. They are needed to add clarity, correct grammar, reduce confusion, and bring up-to-date with the latest glibc. I have checked the man page against the nss source code in glibc 2.14.90.

Historical notes are demoted to the footer.

The rewrite makes the man page much clearer to understand, more authoritative, and easier to read.

Michael Kerrisk

Light edits to Mark Bannister's changes

capabilities.7

Michael Kerrisk

Add prctl(PR_SET_MM) to CAP_SYS_RESOURCE

epoll.7

Michael Kerrisk

Some minor clarifications at start of DESCRIPTION

netlink.7

Jeff Mahoney

[Petr Gajdos]

Note cases where nonprivileged users can use netlink multicast groups

See also https://bugzilla.novell.com/show_bug.cgi?id=754611

unix.7

Michael Kerrisk [Tetsuo Handa]

Add a detail on autobind feature

ld.so.8

Jonathan Nieder [Reuben Thomas]

Document effect of hwcaps on search path

Wording by Aurelien Jarno from Debian glibc's r4701 (2011-06-04).

Addresses <http://bugs.debian.org/622385>

==== Changes in man-pages-3.40 =====

Released: 2012-04-27, Christchurch

Contributors

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Apologies if I missed anyone!

New and rewritten pages

process_vm_readv.2

Mike Frysinger, Christopher Yeoh, Michael Kerrisk
New page for process_vm_readv(2) and process_vm_writev(2)

mcheck.3

Michael Kerrisk
New man page for mcheck(3) and related functions
Also describes mcheck_check_all(3), mcheck_pedantic(3),
and mprobe(3)

Newly documented interfaces in existing pages

rcmd.3

Michael Kerrisk

Document "_af" variants of these functions

Document rcmd_af(), rresvport_af(), iruserok_af(), ruserok_af().

Also some restructuring and other clarifications.

rexec.3

Michael Kerrisk

Document rexec_af()

New and changed links

iruserok_af.3

rcmd_af.3

rresvport_af.3

ruserok_af.3

Michael Kerrisk

New links to rcmd.3

rexec_af.3

Michael Kerrisk

New link to rexec.3

Changes to individual pages

clock_getres.2

Michael Kerrisk

Clarify difference between CLOCK_MONOTONIC and CLOCK_MONOTONIC_RAW

Note interactions of these two clocks with discontinuous

adjustments to the system time and NTP/adjtime(2).

fallocate.2

Michael Kerrisk [John Sullivan]

Fix description of ENOSYS and EOPNOTSUP errors

As reported in https://bugzilla.redhat.com/show_bug.cgi?id=680214

fchmodat.2

Michael Kerrisk [Mike Frysinger]

Improve discussion of difference between wrapper and underlying syscall

gettimeofday.2

Michael Kerrisk

gettimeofday() is affected by discontinuous jumps in the system time
Advise reader to use clock_gettime(2), if they need a
monotonically increasing time source.

Michael Kerrisk

SEE ALSO: Add clock_gettime(2)

prctl.2

Michael Kerrisk

Add PR_TASK_PERF_EVENTS_DISABLE and PR_TASK_PERF_EVENTS_ENABLE
Add some basic documentation of these operations, with a pointer to
tools/perf/design.txt for more information.

Michael Kerrisk [Marcel Holtmann]

Amend details of PR_SET_PDEATHSIG

ptrace.2

Michael Kerrisk [Mike Frysinger]

Note SPARC deviation with respect to get/set regs
SPARC reverses the use of 'addr' and 'data' for
PTRACE_GETREGS, PTRACE_GETFPREGS, PTRACE_SETREGS,
and PTRACE_SETFPREGS.

send.2

Stefan Puiu

Document EACCESS error case for UDP

sigaction.2

Michael Kerrisk

Remove mention of raise(3) for SI_USER
For a long time now, glibc's raise(3) didn't yield SI_USER
for the signal receiver, so remove mention of raise(3)
here. The user can deduce the details, if needed, by looking
at the recently updated raise(3) page.

aio_cancel.3

Michael Kerrisk [Jon Grant]

Rewrite RETURN VALUE section to be clearer

aio_init.3

Michael Kerrisk [Jon Grant]

Remove extraneous "POSIX" from NAME section

btree.3

dbopen.3

hash.3

mpool.3

recno.3

Michael Kerrisk [Brian M. Carlson]

Note that glibc no longer provides these interfaces

glibc stopped providing these interfaces with v2.2.

Nowadays, the user that finds these pages probably wants

the libdb API, so note this in the page.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=337581>

fopen.3

Michael Kerrisk

BUGS: Note limitation on number of flag characters parsed in 'mode'

Michael Kerrisk

Note that 'c' and 'e' flags are ignored for fdopen()

Determined from reading libio/iofdopen.c.

Michael Kerrisk

Document ",ccs=string" feature of 'mode' for fopen()/freopen()

getgrnam.3

Michael Kerrisk [Ulrich Drepper]

Fix discussion of _SC_GETGR_R_SIZE_MAX

The value is not meant to be a maximum (as was specified in

SUSv3) but an initial guess at the required size

(as specified in SUSv4).

getpwnam.3

Michael Kerrisk [Ulrich Drepper]

Fix discussion of _SC_GETPW_R_SIZE_MAX

The value is not meant to be a maximum (as was specified in

SUSv3) but an initial guess at the required size

(as specified in SUSv4).

malloc.3

mallopt.3

mtrace.3

Michael Kerrisk

SEE ALSO: add mcheck(3)

memchr.3

Michael Kerrisk

Clarify description, omitting

mention of "strings" and "characters"

The existing text slipped into talking about characters and

strings, which could mislead readers into thing that, for

example, searches for the byte '\0' are treated specially.

Therefore, rewrite in terms of "bytes" and "memory areas".

At the same time, make a few source file clean-ups.

mkstemp.3

Michael Kerrisk

Add "mkstemps" and "mkostemps" to NAME line

posix_openpt.3

Michael Kerrisk [Vadim Mikhailov]

Add some details on use of the slave pathname

An explicit pointer to ptsname(3) is useful, as is a note of the fact that the slave device pathname exists only as long as the master device is held open.

raise.3

Michael Kerrisk

Add some notes on underlying system call that is used

rcmd.3

Michael Kerrisk

Add some details of the rresvport() 'port' argument

resolver.3

Petr Baudis

Note that

many options are documented in resolv.conf(5)

scandir.3

Michael Kerrisk [Daniel J Blueman]

Improve EXAMPLE source code: s/0/NULL/ in scandir() call

strchr.3

James Hunt

Explain behavior when searching for '\0'

strerror.3

Eric Blake [Stefan Puiu]

Improve strerror_r() description

POSIX requires that perror() not modify the static storage returned by strerror(). POSIX 2008 and C99 both require that strerror() never return NULL (a strerror() that always returns "" for all inputs is valid for C99, but not for POSIX).

http://sourceware.org/bugzilla/show_bug.cgi?id=12204 documents glibc's change to come into compliance with POSIX regarding strerror_r() return value. The GNU strerror_r() use of 'buf' was confusing - I ended up writing a test program that proves that 'buf' is unused for valid 'errnum', but contains truncated "unknown"

message" for out-of-range 'errno'.

See also <http://austingroupbugs.net/view.php?id=382>

Bernhard Walle

Correct description of error return for XSI `strerror_r()`

Michael Kerrisk [Eric Blake]

Note how to use 'errno' to detect errors when calling `strerror()`

Michael Kerrisk [Jon Grant]

Add an example of the kind of string returned by `strerror()`

resolv.conf.5

Petr Baudis

Document "single-request" option

inotify.7

Michael Kerrisk

Note buffer size that guarantees being able to read at least one event

James Hunt

Correct description of size of `inotify_event` structure

iso_8859-1.7

Eugen Dedu

Add "-" for SOFT HYPHEN

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=156154>

netdevice.7

Brian F. G. Bidulock

Document some SIOC configuration ioctls

This patch adds common but missing SIOC configuration ioctls to the netdevice.7 manual pages that are

not documented anywhere

else. SIOCSIFPFLAGS and SIOCGIFPFLAGS are linux-specific. Flag values come from Linux 2.6.25 kernel headers for sockios. The others are standard BSD ioctls that have always been implemented by Linux and were verified from inspecting netdevice.c kernel code.

socket.7

Michael Kerrisk [Alexey Toptygin]

Correct description of SO_BROADCAST

tcp.7

lepton

Correct description for TCP_MAXSEG on modern kernel

==== Changes in man-pages-3.41 =====

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Apologies if I missed anyone!

New and rewritten pages

get_robust_list.2

Ivana Varekova [Michael Kerrisk]

New page documenting get_robust_list(2) and set_robust_list(2)

mallinfo.3

Michael Kerrisk [KOSAKI Motohiro, Paul Pluzhnikov]

New page for mallinfo(3)

malloc_info.3

Michael Kerrisk [Jakub Jelinek]

New page for malloc_info(3)

malloc_stats.3

Michael Kerrisk [KOSAKI Motohiro]

New man page for malloc_stats(3)

Newly documented interfaces in existing pages

madvise.2

Jason Baron

Document MADV_DONTDUMP and MADV_DODUMP

New and changed links

set_robust_list.2

Michael Kerrisk

New link to new get_robust_list.2 page

LIST_ENTRY.3

LIST_HEAD.3

LIST_INIT.3

LIST_INSERT_AFTER.3

LIST_INSERT_HEAD.3

LIST_REMOVE.3

TAILQ_ENTRY.3

TAILQ_HEAD.3

TAILQ_INIT.3

TAILQ_INSERT_AFTER.3

TAILQ_INSERT_HEAD.3

TAILQ_INSERT_TAIL.3
TAILQ_REMOVE.3
CIRCLEQ_ENTRY.3
CIRCLEQ_HEAD.3
CIRCLEQ_INIT.3
CIRCLEQ_INSERT_AFTER.3
CIRCLEQ_INSERT_BEFORE.3
CIRCLEQ_INSERT_HEAD.3
CIRCLEQ_INSERT_TAIL.3
CIRCLEQ_REMOVE.3

Michael Kerrisk

New link to queue.3

The queue(3) page documents these macros, so it makes sense to have links for the names.

DES_FAILED.3

Michael Kerrisk

New link to des_crypt.3

The des_crypt(3) page documents this macro, so it makes sense to have a link for the name.

qsort_r.3

Michael Kerrisk

New link to qsort.3

Overlooked to add this link in 3.38, when documentation of qsort_r() was added to the qsort.3 page.

Global changes

faccessat.2
fchmodat.2
fchownat.2
fstatat.2
futimesat.2
inotify_init.2
linkat.2
mkdirat.2
mknodat.2
openat.2
readlinkat.2
renameat.2
setns.2
splice.2
symlinkat.2
sync.2
tee.2

unlinkat.2

vmsplice.2

Michael Kerrisk [Lauri Kasanen]

Global fix: note glibc version that added library support

confstr.3

strcasecmp.3

strcat.3

strcmp.3

strcpy.3

strdup.3

strftime.3

strlen.3

strnlen.3

strpbrk.3

strspn.3

strtok.3

strxfrm.3

Michael Kerrisk [Andries E. Brouwer]

Clarify that these functions operate on bytes, not (wide) characters

Change 'character(s)' to 'byte(s)' to make clear that these functions operate on bytes, not wide / UTF8 characters.

(POSIX uses 'byte(s)' similarly, to make this point.)

icmp.7

ipv6.7

packet.7

raw.7

rtnetlink.7

unix.7

x25.7

Michael Kerrisk

Remove names of constants from NAME line

Some of the sockets/network protocol pages included names of the corresponding address family constants in the NAME line, but this wasn't done consistently across all pages, and probably it adds little value in those pages that did do this. So, remove these constants from those pages that have

them in the NAME

section.

Changes to individual pages

clock_getres.2

Michael Kerrisk [Josh Triplett]

Expand description of CLOCK_REALTIME

Make it clear that this clock may be discontinuous, and is affected by incremental NTP and clock_adjtime(2) adjustments.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=540872>

epoll_wait.2

Michael Kerrisk

Clarify that 'timeout' is a *minimum* interval

Make it clear that 'timeout' is a minimum interval; the actual interval will be rounded up to the system clock granularity, and may overrun because of kernel scheduling delays.

execve.2

Michael Kerrisk

Rewording to deemphasize libc5 details

fork.2

Mike Frysinger

ERRORS: add ENOSYS

Can occur on, for example, non-MMU hardware.

getcpu.2

Mike Frysinger

Add RETURN VALUE and ERRORS sections

Michael Kerrisk

Refer reader to NOTES for more info about 'tcache'

Michael Kerrisk

DESCRIPTION: reword a sentence to be clearer

io_cancel.2

io_destroy.2

io_getevents.2

io_setup.2

io_submit.2

Michael Kerrisk

Rewrite to focus on system call API

Rewrite to focus on the system call interface, adding some notes on the libaio wrapper differences.

See the following mail:

2012-05-07 "aio manuals", linux-man@vger

<http://thread.gmane.org/gmane.linux.man/1935/focus=2910>

Other minor rewrites.

mount.2

Michael Kerrisk

Comment out an old Linux libc detail

open.2

Nick Piggin [KOSAKI Motohiro, Jan Kara, Hugh Dickins]

Describe race of direct I/O and fork()

Rework 04cd7f64, which didn't capture the details correctly.

See the April/May 2012 linux-man@ mail thread "[PATCH]

Describe race of direct read and fork for unaligned buffers"

<http://thread.gmane.org/gmane.linux.kernel.mm/77571>

poll.2

Michael Kerrisk

Clarify that 'timeout' is a **minimum** interval

Make it clear that 'timeout' is a minimum interval; the actual interval will be rounded up to the system clock granularity, and may overrun because of kernel scheduling delays.

Michael Kerrisk

Clarify discussion of wrapper function emulation

Clarify that glibc (as well as old libc) provides emulation using select(2) on older kernels that don't have a poll() system call.

Michael Kerrisk

Make the meaning of a zero timeout explicit

Clarify that timeout==0 causes an immediate return, even if no file descriptors are ready.

pread.2

Michael Kerrisk [Kasper Dupont]

BUGS: Note O_APPEND + pwrite() does the wrong thing

See https://bugzilla.kernel.org/show_bug.cgi?id=43178

recvmsg.2

Michael Kerrisk

Clarify that 'timeout'

is a **minimum** interval

Make it clear that 'timeout' interval will be rounded up to the system clock granularity, and may overrun because of kernel scheduling delays.

select.2

Michael Kerrisk

Clarify that 'timeout' is a **minimum** interval

Make it clear that 'timeout' is a minimum interval; the actual interval will be rounded up to the system clock granularity, and may overrun because of kernel scheduling delays.

Michael Kerrisk

Expand description of the self-pipe trick

Michael Kerrisk

Add further details on pselect6() system call that underlies pselect()

semop.2

Michael Kerrisk

Clarify that 'timeout' of `semtimedop()` is a **minimum** interval
Make it clear that 'timeout' interval will be rounded up to the system clock granularity, and may overrun because of kernel scheduling delays.

signal.2

Michael Kerrisk

Note that 'sig_t'
requires `_BSD_SOURCE`

Also remove some old Linux libc details

sigwaitinfo.2

Michael Kerrisk

Clarify that 'timeout' of `sigtimedwait()` is a **minimum** interval
Make it clear that 'timeout' is a minimum interval; the actual interval will be rounded up to the system clock granularity, and may overrun because of kernel scheduling delays.

stat.2

Bjarni Ingi Gislason

Formatting fixes

From "groff -ww" (or "man --warnings=w ..."):

warning: around line 442: table wider than line width

GNU man uses line length of 78.

Use text blocks. Two spaces between sentences or better: start each sentence in a new line.

syscalls.2

Bjarni Ingi Gislason

Formatting fixes

From "groff -ww ..." (or "man --warnings=w ..."):

warning: around line 157: table wider than line width

Have to use text blocks. Move some text
to its correct column.

Split text to two columns to avoid hyphenation.

sysinfo.2

Michael Kerrisk

Remove reference to obsolete `libc5`

syslog.2

Michael Kerrisk

Remove some details about obsolete Linux libc

aio_cancel.3

aio_error.3

aio_fsync.3

aio_read.3

aio_return.3

aio_suspend.3

aio_write.3

Michael Kerrisk

ERRORS: Add/update ENOSYS error

aio_cancel.3

Michael Kerrisk

Clarify what happens when a request isn't successfully canceled

Michael Kerrisk

Add pointers to aio(7) and sigevent(7)

dbopen.3

Michael Kerrisk

SYNOPSIS: Add header file <fcntl.h>

Upstreamed from Debian, and consistent with FreeBSD

dbopen(3) man page.

fmemopen.3

Michael Kerrisk

Note details of POSIX.1-2008 specification of 'b' in 'mode'

Michael Kerrisk [Rich Felker]

BUGS: fmemopen() doesn't correctly set file position in some cases

If 'mode' is append, but 'size' does not cover

a null byte

in 'buf', then fmemopen() incorrectly sets the initial file position to -1, rather than the next byte after the end of the buffer.

See http://sourceware.org/bugzilla/show_bug.cgi?id=13151

Michael Kerrisk

BUGS: fmemopen() incorrectly handles size==0 case

If size is zero, fmemopen() fails, This is surprising behavior, and not specified in POSIX.1-2008.

See http://sourceware.org/bugzilla/show_bug.cgi?id=11216

Reported-by; Alex Shinn <alexshinn@gmail.com>

Michael Kerrisk

BUGS: Note silent ABI change for fmemopen() in glibc 2.9

Michael Kerrisk [Rich Felker]

BUGS: Append mode does not force writes to append
Append mode correctly sets the initial offset but does
not force subsequent writes to append at end of stream.

See http://sourceware.org/bugzilla/show_bug.cgi?id=13152

Michael Kerrisk [Eric Blake]

BUGS: Note inconsistent treatment of 'b' in 'mode'
fopen() permits, for example, both "w+b" and "wb+",
but only the latter is meaningful to fmemopen().

See http://sourceware.org/bugzilla/show_bug.cgi?id=12836

fopencookie.3

Michael Kerrisk [Petr Baudis]

Correct description of return for user-supplied 'write' function

See http://sourceware.org/bugzilla/show_bug.cgi?id=2074

getaddrinfo.3

Jean-Michel Vourgère

Note that AI_ADDRCONFIG is not affected by loopback addresses

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=660479>

iconv.3

Michael Kerrisk

Upstream useful NOTE from Debian

Warn the reader that the pointer arguments can't be
interpreted as C style strings. Also, note possible
alignment requirements for the referenced bytes sequences,

Michael Kerrisk

Write a better paragraph introducing iconv() and its arguments

isgreater.3

Michael Kerrisk [Vincent Lefevre]

Clarify that the arguments to these macros must be real-floating

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=609033>

lio_listio.3

Michael Kerrisk

Clarify that async notification occurs when *all* I/Os complete

makedev.3

Michael Kerrisk

SYNOPSIS: Correct return types of major() and minor()

See https://bugzilla.redhat.com/show_bug.cgi?id=754188

Reported-by; Zdenek Kabelac <zkabelac@redhat.com>

malloc.3

Michael Kerrisk

SEE ALSO: Add malloc_info(3)

malloc_get_state.3

Michael Kerrisk

Fix wordos in function names in NAME line

mallopt.3

Michael Kerrisk

Fix example program

The example code was a version that was not consistent with the shell output shown on the page.

Reported-by: Simon Paillard <spaillard@debian.org>

Michael Kerrisk

Restore accidentally omitted line in shell session

Michael

Kerrisk

SEE ALSO: Add malloc_stats(3)

mmap64.3

Michael Kerrisk

Change target of link to mmap.2 (was mmap2.2)

Upstreamed from Red Hat / Fedora

realpath.3

Michael Kerrisk [Casper Dik]

Remove note about Solaris possibly returning a relative path

syslog.3

Michael Kerrisk [Ralph Corderoy]

Document behavior when 'ident' argument to openlog() is NULL

See <https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/382096>

Michael Kerrisk

Update CONFORMING TO for POSIX.1-2008

POSIX.1-2008 doesn't change any details, but make that more explicit.

undocumented.3

Michael Kerrisk

Remove some functions that have been documented

sd.4

Michael Kerrisk

Remove reference to nonexistent scsi(4) page

Upstreamed from RedHat / Fedora

sk98lin.4

Michael Kerrisk [Stephen Hemminger]

Note that this driver was removed in 2.6.28

See <https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/528020>

passwd.5

Michael Kerrisk

Upstream pieces from Red Hat/Fedora

Note mention of empty password field.

Add description of "*NP*" in password field.

Michael Kerrisk

Various minor fixes and improvements

proc.5

Michael Kerrisk

Note that CAP_SYS_ADMIN processes can override file-max

Upstreamed from red Hat / Fedora

Michael Kerrisk

Document /proc/[pid]/cgroup

Upstreamed from Red Hat / Fedora

resolv.conf.5

Michael Kerrisk

Take a Debian improvement into upstream

tzfile.5

Michael Kerrisk

Mention timezone directories in DESCRIPTION

Note that timezone files are usually in /usr/lib/zoneinfo

or /usr/share/zoneinfo.

Michael Kerrisk

Drop SYNOPSIS

The SYNOPSIS doesn't correspond to a user-visible file.

Michael Kerrisk

SEE ALSO: Add pointer to glibc source file timezone/tzfile.h

Michael Kerrisk

SEE ALSO: add tzset(3) and tzselect(8)

ascii.7

Bjarni Ingi Gislason

Indent for "troff" makes table too wide

Fix following from "groff -t -ww ...":

warning: around line 53: table wider than line width

Extra indent for "troff" makes the table look misplaced

(default "ps" output).

cp1251.7

Bjarni Ingi Gislason

table too wide

From "nroff -ww -t ...":

warning: around line 44: table wider than line width

Columns are made narrower (column gutter decreased).

ipv6.7

Stefan Puiu

Add ENODEV error for bind() to link-local IPv6 address

signal.7

Michael Kerrisk [Simone Piccardi]

Clarify that SIGLOST is unused

Michael Kerrisk

Comment out crufty BUGS text on SIGLOST

It must be a very long time since the statement there about SIGLOST was true. (The text seems to date back to 1996.)

Michael Kerrisk

Update architectures for tables of signal numbers

utf-8.7

Brian M. Carlson

Two clarifications

This patch clarifies that 0xc0 and 0xc1 are not valid in any UTF-8 encoding[0], and it also references RFC 3629 instead of RFC 2279.

[0] In order to have 0xc0, you'd have to have a two-byte encoding with all the data bits zero in the first byte (and thus only six bits of data), which would be an ASCII character encoded in the non-shortest form. Similarly with 0xc1.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=538641>

ldconfig.8

nscd.8

Michael Kerrisk

Remove path prefix from NAME line

Command names shown in NAME are normally just the basename, not the full pathname of the command.

==== Changes in man-pages-3.42 =====

Released: 2012-08-14, Konolfingen

Contributors

The following

people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Global changes

Various pages

Sami Kerola

Global fix: use UR macro where applicable

The syntax `.UR http://example.com` paired with `.UE` will create links which one can interact, if the pager allows that. One way to see the effect is ask the `man(1)` command to use browser display, e.g.:

```
man -H man7/uri.7
```

("\" is optional groff syntax to permit hyphenless line breaks.)

Changes to individual pages

ldd.1

Michael Kerrisk

Add security note on untrusted executables

See also <http://www.catonmat.net/blog/ldd-arbitrary-code-execution/>
and

<http://tldp.org/HOWTO/Program-Library-HOWTO/shared-libraries.html>

clone.2

Michael Kerrisk

Rewrite discussion of `sys_clone`

futex.2

Consolidate error descriptions to `ERRORS`

Michael Kerrisk

Various wording fix-ups

Michael Kerrisk

Fix description of `EINVAL` error

The current text seems incorrect. Replace with a more general description.

getdents.2

select_tut.2

atof.3

atoi.3

pthread_create.3

pthread_sigmask.3

rtime.3

setbuf.3

tsearch.3

netlink.7

Michael Kerrisk [Jan Engelhardt]

Remove unneeded casts

get_robust_list.2
get_thread_area.2
getcpu.2
getdents.2
gettid.2
io_cancel.2
io_destroy.2
io_getevents.2
io_setup.2
io_submit.2
ioprio_set.2
kexec_load.2
llseek.2
modify_ldt.2
mq_getsetattr.2
pivot_root.2
readdir.2
rt_sigqueueinfo.2
set_thread_area.2
sgetmask.2
spu_create.2
spu_run.2
subpage_prot.2
sysctl.2
tkill.2

Michael Kerrisk

Add note to SYNOPSIS that there is no glibc wrapper for system call

Reduce the chance that the reader

may be misled into thinking

that there is a wrapper function for this system call by noting explicitly in the SYNOPSIS that there is no glibc wrapper and pointing the reader to NOTES for further details.

ioprio_set.2

Colin McCabe

Clarify the multithreaded behavior of ioprio_set(2)

Michael Kerrisk [, Kalle Olavi Niemitalo]

Document who==0 for IOPRIO_WHO_PROCESS and IOPRIO_WHO_PGRP

For IOPRIO_WHO_PROCESS, who==0 means operate on the caller.

For IOPRIO_WHO_PGRP, who==0 means operate on the caller's process group.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=652443>

migrate_pages.2

Michael Kerrisk [Christoph Lameter, JoonSoo Kim]

Fix description of return value

mount.2

Michael Kerrisk

For MS_REMOUNT, source is ignored

mprotect.2

Michael Kerrisk [Rasmus Villemoes]

'addr' argument is not const

As reported by Rasmus:

Both my system's man-pages (3.22) and the latest online (3.41) show:

```
int mprotect(const void *addr, size_t len, int prot);
```

as the prototype for mprotect(2). However, POSIX [1] and the actual sys/mman.h (on all the systems I checked) do not have the const qualifier on the first argument.

msgctl.2

semctl.2

shmctl.2

svipc.7

Michael Kerrisk

Don't mention that ipc_perm is defined in <sys/ipc.h>

There's no need to mention that the 'ipc_perm' structure is defined in <sys/ipc.h>. That's an implementation detail, and furthermore <sys/ipc.h> is itself included by the other System V IPC header files. The current text might lead the reader to conclude that they must include <sys/ipc.h>, which is not the case (it is required neither on Linux, nor by the standards).

msgctl.2

msgget.2

msgop.2

semctl.2

semget.2

semop.2

shmctl.2

shmget.2

Michael Kerrisk

NOTES: <sys/types.h> and <sys/ipc.h> aren't strictly needed

Add text to NOTES to say that the <sys/types.h> and <sys/ipc.h> header files aren't required by Linux or the standards, but may be needed for portability to old systems.

ptrace.2

Denys Vlasenko

Explain WNOHANG behavior and EINTR bug

I didn't like the "SIGKILL operates similarly, with exceptions" phrase (if it's different, then it's not "similar", right?), and now I got around to changing it. Now it says simply: "SIGKILL does not generate signal-delivery-stop and therefore the tracer can't suppress it."

Replaced "why WNOHANG is not reliable" example with a more realistic one (the one which actually inspired to add this information to man page in the first place): we got ESRCH - process is gone! - but waitpid(WNOHANG) can still confusingly return 0 "no processes to wait for".

Replaced "This means that unneeded trailing arguments may be omitted" part with a much better recommendation to never do that and to supply zero arguments instead. (The part about "undocumentedness" of gcc behavior was bogus, btw - deleted).

Expanded BUGS section with the explanation and an example of visible strace behavior on the buggy syscalls which exit with EINTR on ptrace attach. I hope this will lead to people submitting better bug reports to lkml about such syscalls.

seteuid.2

Michael Kerrisk

Note glibc version where setegid() implementation changed
In glibc 2.2/2.3, setegid() switched from setregid() to setresgid().

set_tid_address.2

Michael Kerrisk

Rename 'ctid' argument for consistency with clone(2) page

Michael Kerrisk

Some

rewordings and minor clarifications

sigwaitinfo.2

Michael Kerrisk [Daniel Zingaro]

Some wording clarifications

Mainly rewording things like "is delivered" to "becomes pending", which is more accurate terminology.

syscall.2

Michael Kerrisk

Add some more details to the description of syscall(2)

And add another example of using syscall() to the program example.

syscalls.2

Michael Kerrisk

Add `kcmp(2)`

Michael Kerrisk

Move discussion of `set_zone_reclaim(2)` out of main table

This system call was never visible to user space, so it makes sense to move it out of the main table of system calls into the notes below the table.

getifaddrs.3

Michael Kerrisk [Adrian Dabrowski]

Note that `ifa_addr` and `ifa_netmask` can be NULL

readdir.3

Michael Kerrisk [Jan Engelhardt]

Handle -1 error from `pathconf()` in example code snippet

Improve the example

demonstrating allocation of a buffer

for `readdir_r()` to handle -1 error return from `pathconf()`.

Otherwise, naive readers may think that `pathconf()` return value can be used without checking.

realpath.3

Shawn Landden

Use past tense with ancient history (`libc4`, `libc5`)

regex.3

Michael Kerrisk

Correct SEE ALSO reference to glibc manual "regex" section

rtime.3

Michael Kerrisk [Jan Engelhardt]

Fix broken pointer cast in example code

sem_close.3

sem_destroy.3

sem_getvalue.3

sem_init.3

sem_open.3

sem_post.3

sem_unlink.3

sem_wait.3

sem_overview.7

Michael Kerrisk

Note that "cc -pthread" is required; "-lrt" no longer works

See <https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/874418>

sigwait.3

Michael Kerrisk

Reword "is delivered" to "becomes pending"

strcat.3

Michael Kerrisk

Add some text to emphasize the dangers of buffer overruns

Michael Kerrisk

NOTES:

Add discussion of strlcat()

strcpy.3

Michael Kerrisk

Note that info is lost when strncpy() doesn't null terminate

Michael Kerrisk

Add some text to emphasize possibility of buffer runs with strcpy()

Michael Kerrisk

NOTES: Add a discussion of strlcpy()

Inspired by <https://lwn.net/Articles/506530/>

Michael Kerrisk

Fix description of the null-byte padding performed by strncpy()

tsearch.3

Michael Kerrisk

NOTES: remove redundant discussion of unorthodox use of term "postorder"

This point is already covered at greater length in the main text of the page (See the piece "More commonly, ...").

Michael Kerrisk

Clarify use for first argument to the twalk() 'action' function

There's a number of details in POSIX that are omitted in the current version of this page.

Michael Kerrisk

Some wording fixes

core.5

Michael Kerrisk

Note effect of madvise(2)

MADV_DONTDUMP flag

capabilities.7

Michael Kerrisk

Document CAP_BLOCK_SUSPEND

glob.7

Bjarni Ingi Gislason

Change 8 bit characters to 7 bit representation

Fixes rendering errors for accented 'a' characters.

Michael Kerrisk [Aaron Peschel]

Update bash(1) command used to obtain classical globbing behavior
The man page formerly noted the bash(1) v1 command to do this.

iso_8859-1.7

Bjarni Ingi Gislason

Explanation of SOFT HYPHEN and the code for it

<groff: iso_8859-2.7>:89: warning: can't find special character `shc'

This is the only "iso_8859-*.7" file that has this (now) undefined character. The code in column four in "iso_8859-1.7" is "0x2D" ("HYPHEN, MINUS SIGN" or "HYPHEN-MINUS") instead of "0xAD". See Debian bug 156154 (or package "manpages").

There should be an explanation for this graphic character and the code should

be 0xAD in iso_8859-1.7 (as in all others), even though "[gn]roff" does not display a "HYPHEN" in that position of the table.

The line with "SOFT HYPHEN" gets a footnote and a short explanation.

mdoc.7

Bjarni Ingi Gislason

Fixing a warning and a table

Fis warning from "groff -ww ..." (or "man --warnings=w ..."):

<groff: mdoc.7>:294: warning:
tab character in unquoted macro argument

In one table the distance between columns is too small in the "ps" output. (Bug in the groff "doc.tmac" macro?)

mdoc.samples.7

Bjarni Ingi Gislason

Fix warnings from [ng]roff, corrections

From "man -ww ..." (groff -ww ...):

<standard input>:541: warning:
tab character in unquoted macro argument
[+3 similar warnings]
<standard input>:813: warning: macro `Pu' not defined

Usage:

.Rv -std in sections 2 and 3 only (#1669)
mdoc warning: A .Bl directive has no matching .El (#1821)

String "Pu" defined as a row of punctuation characters.
".Bl" and ".El" fixed.

Some arguments, that start with a period or are the name of a macro, protected with "\&".

Variable name for macro ".Rv" corrected.

netdevice.7

Bjarni Ingi Gislason

Line in table too long

Fix warning from "man ..." ("nroff -ww ..."):

nroff: netdevice.7: warning: around line 98:
table wider than line width

Fix: No right adjustment in text blocks in tables.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=673873>

netlink.7

Bjarni Ingi Gislason

Line in table is too long

Fix warning from "man ..." ("nroff -ww ..."):

nroff: netlink.7: warning: around line 195:
table wider than line width

Horizontal line incorporated into table.

No right adjustment of text blocks in tables.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=673875>

Simon Paillard [Herbert Xu]

Change description of "*_pid" fields to "Port ID"

As reported by Herbert Xu, these should not be considered as PIDs.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=383296>

rtnetlink.7

Bjarni Ingi Gislason

Line in table too long

Fix warning from "man ..." ("nroff -ww ..."):

nroff: rtnetlink.7: warning: around line 415:
table wider than line width

Column gutter reduced to fit line length.

Right adjustment in text blocks removed in tables.

Some header made centered in tables.

One table put on same page.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=674051>

socket.7

Martin H

Document SO_MARK socket option

Commit 4a19ec5800fc3bb64e2d87c4d9fdd9e636086fe0 in Jan 2008 added the new SO_MARK socket option.

This patch is based on text from the commit message.

See https://bugzilla.kernel.org/show_bug.cgi?id=16461.

svipc.7

Michael Kerrisk

SYNOPSIS: Remove include of <sys/types.h> and <sys/ipc.h>
Including <sys/types.h> and <sys/ipc.h> isn't needed on Linux
and isn't really relevant for the explanation on this page.

===== Changes in man-pages-3.43 =====

Released: 2012-10-05, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

getenv.3

Michael Kerrisk [Florian Weimer, Andreas Schwab]

Document secure_getenv(3)

New and changed links

phys.2

Michael Kerrisk

New link to unimplemented.2

secure_getenv.3

Michael Kerrisk

New link to getenv.3

Global changes

Various pages

Michael Kerrisk

Global fix: s/-/\-/ when real hyphen is required (e.g., in code)

Various pages

David Prévot [Michael Kerrisk]

Global fix: Various consistency

fixes for SEE ALSO

Various pages

Michael Kerrisk

Global fix: use "Linux kernel source" consistently

Rather than "kernel source".

Various pages

Michael Kerrisk

Global fix: disable justification and hyphenation in SEE ALSO

For a better visual result, disable justification and hyphenation
in SEE ALSO where page names are long.

syscalls.2

uname.2

boot.7

Michael Kerrisk

Global fix: s/OS/operating system/

Changes to individual pages

epoll_wait.2

Michael Kerrisk [Fredrik Arnerup]

Describe timeout limitation in kernels < 2.6.37

As reported by Fredrik (and as far as I can tell the problem went back to 2.6.0):

The timeout argument has an upper limit. Any values above that limit are treated the same as -1, i.e. to wait indefinitely.

The limit is given by:

```
#define EP_MAX_MSTIMEO min(1000ULL * MAX_SCHEDULE_TIMEOUT
/ HZ, \
(LONG_MAX - 999ULL) / HZ)
```

That is, the limit depends on the size of a long and the timer frequency. Assuming the long is never smaller than 32 bits and HZ never larger than 1000, the worst case is 35 minutes. I think this should be mentioned under "BUGS".

Although this is likely to be fixed in the future (<http://lkml.org/lkml/2010/8/8/144>), the problem exists in at least 2.6.14 - 2.6.35. I don't know if select(2) and poll(2) are affected.

https://bugzilla.kernel.org/show_bug.cgi?id=20762

Michael Kerrisk

Add pointer to select(2) for discussion of close in another thread

getitimer.2

Michael Kerrisk [Trevor Woerner]

Note Linux's odd handling of the new_value==NULL case

Michael Kerrisk [Trevor Woerner]

Fix types used to declare fields in timeval struct

keyctl.2

David Prévot

Reorder SEE ALSO,

without .br

poll.2

Michael Kerrisk

Add pointer to select(2) for discussion of close in another thread

select.2

Michael Kerrisk [Stephane Fillod]

Note behavior if monitored file descriptor is closed in another thread

Executive summary: a sane application can't rely on any particular behavior if another thread closes a file descriptor being monitored by select().

See https://bugzilla.kernel.org/show_bug.cgi?id=40852

Michael Kerrisk

Clarify equivalent pselect() code in terms of threads
s/sigprogmask/pthread_sigmask/

semop.2

Michael Kerrisk

Recast discussion of blocking behavior in terms of threads
semop() blocks the calling thread, not the process.

Michael Kerrisk

SEE ALSO: Add clone(2)
Give reader a clue about CLONE_SYSVSEM.

shutdown.2

Michael Kerrisk [Eric Dumazet]

Document EINVAL error (and associated bug)

Eric

Dumazet noted that EINVAL was not documented. Some further digging shows that it's also not diagnosed consistently.

See https://bugzilla.kernel.org/show_bug.cgi?id=47111.

sigaction.2

Michael Kerrisk

Tweak SA_RESETHAND description

timer_settime.2

Michael Kerrisk

Small rewording around discussion of pointer arguments

wait4.2

Adrian Bunk

Note that these functions are nonstandard and recommend alternatives
Some edits to Adrian's patch by mtk.

Michael Kerrisk

CONFORMING TO: Note SUS details for wait3()

gnu_get_libc_version.3

Michael Kerrisk

Remove unneeded "#define _GNU_SOURCE" from SYNOPSIS

pthread_kill.3

pthread_sigqueue.3

Michael Kerrisk

Remove wording "another"

Writing "another thread" in these pages implies that these functions can't be used to send a signal to the calling thread itself, which is of course untrue.

sigvec.3

Michael

Kerrisk

Add "int" arg to sv_handler definition in sigvec structure

Michael Kerrisk

Fix small error in discussion of blocking of signals

The signal that causes the handler to be invoked is blocked, but saying "by default" implies that this can be changed via the API. It cannot. (One needs sigaction(2) for that.)

syslog.3

Simon Josefsson

Remove (apparently bogus) text claiming LOG_AUTH is deprecated
LOG_AUTH is in POSIX, and widely available. There seems to be no basis to the claim it is deprecated.

Quoting Simon:

I cannot find any other source that claim LOG_AUTH is deprecated in any way. LOG_AUTH is distinct from LOG_AUTHPRIV. The GNU C Library manual only documents LOG_AUTH. The header files contains both without any comment. Common systems like Debian appear to refer to both auth and

authpriv facilities in syslog configurations.

Popular daemons appear to use both facilities.

Both facilities are discussed in several RFCs.

See https://bugzilla.kernel.org/show_bug.cgi?id=46091

ttyname.3

Michael Kerrisk

SEE ALSO: Add ctermid(3)

proc.5

Michael Kerrisk

Clarify header file related to 'flags' field of /proc/PID/stat

Michael Kerrisk [Frédéric Brière]

Update description of 'starttime' field of /proc/PID/stat

The unit of measurement changed from jiffies to clock ticks in
Linux 2.6.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=675891>

Michael Kerrisk

Document /proc/sys/kernel/kptr_restrict

Michael Kerrisk [Kees Cook]

Document /proc/sys/fs/protected_symlinks

Based on text in Documentation/sysctl/fs.txt by Kees Cook

Michael Kerrisk [Kees Cook]

Document /proc/sys/fs/protected_hardlinks

Based

on text in Documentation/sysctl/fs.txt by Kees Cook

capabilities.7

Michael Kerrisk

Document interaction of CAP_SYSLOG and /proc/sys/kernel/kptr_restrict

ip.7

Michael Kerrisk

SEE ALSO: Add ipv6(7)

SEE ALSO: Add icmp(7)

man-pages.7

Michael Kerrisk

Add some advice about disabling hyphenation in SEE ALSO

ld.so.8

Michael Kerrisk

Describe interpretation of slashes in dependency strings

Michael Kerrisk

Repeat note that LD_LIBRARY_PATH is ignored in privileged programs

This point is already noted when discussing search order for
libraries, but it's worth repeating under the specific discussion
of LD_LIBRARY_PATH further down the page.

Michael Kerrisk

Add some details for LD_PRELOAD

Note that LD_PRELOAD list separator can be space or colon

==== Changes in man-pages-3.44 =====

Released: 2012-11-07, Barcelona

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Thomas Habets <thomas@habets.se>

Apologies if I missed anyone!

New and rewritten pages

delete_module.2

Michael Kerrisk

Rewrite to Linux 2.6+ reality

Michael Kerrisk

Change license and copyright

There is now nothing left of the original FSF-copyrighted page. So, change the copyright and license.

Michael Kerrisk [Lucas De Marchi, Rusty Russell]

Substantial reorganization after comments from Rusty Russell

Rusty notes that O_NONBLOCK is almost always used in practice. Therefore, it would be better to reorganize the page to consider that "the default".

init_module.2

Michael Kerrisk

Rewrite to Linux 2.6+ reality

Michael Kerrisk

Change copyright and license

Little of the original page now remains. Change copyright and license

Michael Kerrisk [Rusty Russell]

Changes after review comments from Rusty Russell

Kees Cook

Add various pieces describing Linux 2.6+ behavior

Pieces take from, or inspired by, a patch sent by Kees.

getauxval.3

Michael Kerrisk

Document getauxval() function added in glibc 2.16

Global changes

Various pages

Michael Kerrisk

Global fix: Use consistent capitalization in NAME section

The line(s) in the NAME section should only use capitals where English usage dictates that. Otherwise, use

lowercase throughout.

Various pages

Michael Kerrisk

Global fix: "userspace" ==> "user space" or "user-space"

Existing pages variously use "userspace" or "user space".

But, "userspace" is not quite an English word.

So change "userspace" to "user space" or, when used attributively, "user-space".

Changes to individual pages

clock_getres.2

clock_nanosleep.2

Michael Kerrisk

Linking with -lrt is no longer needed from glibc 2.17 onward

create_module.2

Michael Kerrisk

Note that this system call is present only in kernels before 2.6

Michael Kerrisk

Note that ENOSYS probably indicates kernel 2.6+

execve.2

Michael Kerrisk

Document treatment of PR_SET_PDEATHSIG on execve()

Michael Kerrisk

Document treatment of SECBIT_KEEP_CAPS securebits flag on execve()

fork.2

Michael Kerrisk

Note treatment of default timer slack value on fork()

getdomainname.2

Simon Paillard [Lars Wirzenius]

Point out that these calls relate to NIS, not DNS

See <http://bugs.debian.org/295635>

get_kernel_syms.2

Michael Kerrisk

Note that this system call is present only in kernels before 2.6

ipc.2

Michael Kerrisk

Update note on architectures that don't have ipc()

Replace mention of ia64 with x86-64 and ARM.

link.2

Michael Kerrisk

Add EPERM error triggered by /proc/sys/fs/protected_hardlink

prctl.2

Michael Kerrisk

Mention Documentation/prctl/no_new_privs.txt for PR_SET_NO_NEW_PRIVS

Kees Cook

update seccomp sections for mode 2 (BPF)

This adds a short summary of the arguments used for "mode 2" (BPF) seccomp.

Michael Kerrisk

Small improvements to PR_SET_SECCOMP discussion

Note type of 'arg3' for SECCOMP_MODE_FILTER.

Add pointer to Documentation/prctl/seccomp_filter.txt.

Michael Kerrisk

Note 'seccomp' semantics with respect to fork(), execve(), and prctl()

Michael Kerrisk

Document PR_SET_TIMERSLACK and PR_GET_TIMERSLACK

Michael Kerrisk

Reword PR_SET_NAME and PR_GET_NAME in terms of threads

Plus tfix

Kees Cook

document PR_SET_NO_NEW_PRIVS, PR_GET_NO_NEW_PRIVS

This adds a short description of the no_new_privs bit, as described in Documentation/prctl/no_new_privs.txt.

ptrace.2

Michael Kerrisk

Clarify that some operations are not present on all architectures
PTRACE_GETREGS, PTRACE_SETGREGS, PTRACE_GETFPREGS,
and PTRACE_GETSPREGS are not present on all architectures.
PTRACE_SYSEMU and PTRACE_SYSEMU_SINGLESTEP are present only
on x86.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=122383>

query_module.2

Michael Kerrisk

Add a few words clarifying reference to /sys/module

Michael Kerrisk

Note that

this system call is present only in kernels before 2.6

Michael Kerrisk

Note that ENOSYS probably indicates kernel 2.6+

Michael Kerrisk

SEE ALSO: Add modinfo(8) and lsinfo(8)

Michael Kerrisk

Move some information in NOTES to VERSIONS

socketcall.2

Michael Kerrisk

Update note on architectures that don't have socketcall()

Replace mention of ia64 with x86-64 and ARM.

times.2

Thomas Habets

Recommend clock_gettime(2) as alternative to times(2)

clock_getcpuclid.3

Michael Kerrisk

Linking with -lrt is no longer needed from glibc 2.17 onward

fts.3

Simon Paillard [James Youngman]

Improve description of physical vs. logical tree walking

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=633505>

getenv.3

Michael Kerrisk

SEE ALSO: add getauxval(3)

proc.5

Michael Kerrisk

Document /proc/meminfo

Info mostly taken from Documentation/filesystems/proc.txt

and Documentation/vm/hugetlbpage.txt.

Michael Kerrisk

Default for /proc/sys/fs/protected_{hardlinks,symlinks} is now 0

The default setting of 1 in /proc/sys/fs/protected_hardlinks and /proc/sys/fs/protected_symlinks caused one too many breakages for Linus's taste, so commit 561ec64ae67e changed the default for both files to 0.

Note system call error yielded by /proc/sys/fs/protected_symlinks

Note that violating 'protected_symlinks' restrictions causes system calls to fail with the error EACCES.

Michael Kerrisk

Since Linux 2.6.27, /proc/sys/kernel/modprobe depends on CONFIG_MODULES

ipv6.7

Bert Hubert

Document IPV6_RECVPKTINFO

man-pages.7

Michael Kerrisk

Note rules for capitalization in NAME section

time.7

Michael Kerrisk

Add a subsection on timer slack

ld.so.8

Michael Kerrisk

SEE ALSO: add getauxval(3)

=====
Changes in man-pages-3.45 =====

Released: 2012-12-21, Christchurch

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Apologies
if I missed anyone!

New and rewritten pages

s390_runtime_instr.2

Jan Glauber

New page for s390-specific s390_runtime_instr(2)

if_nameindex.3

YOSHIFUJI Hideaki

Document if_nameindex(3) and if_freenameindex(3)

Michael Kerrisk

Edits, improvements and corrections to Hideaki's page

Michael Kerrisk

Add an example program

if_nametoindex.3

YOSHIFUJI Hideaki

New page documenting if_nametoindex(3) and if_indexoname(3)

New and changed links

if_freenameindex.3

Michael Kerrisk

New link to if_nameindex.3

if_indexoname.3

Michael Kerrisk

New link to [if_nametoindex.3](#)

Global changes

[sysconf.3](#)

[cciss.4](#)

Michael Kerrisk

Global fix: `s/runtime/run time/`

Changes to individual pages

[clone.2](#)

Michael Kerrisk

Since 2.6.30, `CLONE_NEWIPC` also supports POSIX message queues

[delete_module.2](#)

Michael Kerrisk

Small rewording of description of effect of `O_TRUNC`

[getrlimit.2](#)

Michael Kerrisk [Trevor Woerner]

Document Linux's nonstandard treatment of `RLIMIT_CPU` soft limit

Upon encountering the `RLIMIT_CPU` soft limit when a `SIGXCPU` handler has been installed, Linux invokes the signal handler `*and*` raises the soft limit by one second. This behavior repeats until the limit is encountered. No other implementation that I tested (Solaris 10, FreeBSD 9.0, OpenBSD 5.0) does this, and it seems unlikely to be POSIX-conformant. The (Linux-specific) `RLIMIT_RTTIME` soft limit exhibits similar behavior.

Michael Kerrisk

Point reader at discussion of `/proc/[pid]/limits` in `proc(5)`

[io_getevents.2](#)

Michael Kerrisk

`io_getevents()` may cause segfault when called with invalid `ctx_id`

For reference see: <http://marc.info/?l=linux-aio&m=130089887002435&w=2>

[recv.2](#)

Michael

Kerrisk [Eric Dumazet]

UNIX domain sockets support `MSG_TRUNC` since 3.4

[sendmmsg.2](#)

Elie De Brauwer

Add example program for sendmmsg()

stat.2

Simon Paillard

Clarify description of EOVERFLOW error

The EOVERFLOW error is not only for st_size, but also

inode and block size fields. See glibc source file

sysdeps/unix/sysv/linux/xstatconv.c and kernel source

file fs/stat.c. Also, fix bit/byte confusion

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=604928>

syscalls.2

Michael Kerrisk

Update various references to "i386" to "x86"

Michael Kerrisk

Add s390_runtime_instr(2)

sysctl.2

Michael Kerrisk

Mention CONFIG_SYSCTL_SYSCALL

Michael Kerrisk

Calls to sysctl() log warnings to the kernel log since 2.6.24

syslog.2

Michael Kerrisk

Substantially reorganize discussion of commands

Make the layout of the discussion of the commands

more readable.

Michael Kerrisk

Add kernel symbolic 'type' names

Michael Kerrisk

Clarify SYSLOG_ACTION_SIZE_UNREAD semantics

SYSLOG_ACTION_SIZE_UNREAD returns the number of bytes available for reading via SYSLOG_ACTION_READ.

Michael Kerrisk

Clarify where SYSLOG_ACTION_READ_ALL places data it reads

Michael Kerrisk

Clarify semantics of SYSLOG_ACTION_CLEAR

The SYSLOG_ACTION_CLEAR command (5) does not really clear the ring buffer; rather it affects the semantics of what is returned by commands 3 (SYSLOG_ACTION_READ_ALL) and 4 (SYSLOG_ACTION_READ_CLEAR).

Michael Kerrisk

Clarify discussion of privileges for commands 3 and 10

Michael Kerrisk

Add mention of CONFIG_LOG_BUF_SHIFT

wait.2

Michael Kerrisk

BUGS: Document odd waitid() behavior when 'infop' is NULL

getifaddrs.3

Michael Kerrisk [Julien Cristau]

Update description

of ifa_data to Linux 2.6+ reality

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=526778>

memcmp.3

Michael Kerrisk [Jon Grant]

Enhance RETURN VALUE text and remove redundant text from DESCRIPTION

Note that sign of result equals sign of difference between
first two bytes that differ (treated as "unsigned char")."

mkstemp.3

Michael Kerrisk [Florian Weimer]

Deemphasize discussion of mode 066 in glibc 2.0.6

Glibc 2.0.6 is now so ld that the discussion of details
of that version can be deemphasized placing just under
NOTES.

See https://bugzilla.kernel.org/show_bug.cgi?id=51811

strcmp.3

Michael Kerrisk [Jon Grant]

Enhance RETURN VALUE text and remove redundant text from DESCRIPTION

Note that sign of result equals sign of difference between
first two bytes that differ (treated as "unsigned char")."

ttyname.3

Michael Kerrisk

Fix confused text in ERRORS

The existing text suggested that the ERRORS applied
only for ttyname_r(). However, 2 of the 3 errors
can occur for ttyname().

undocumented.3

Michael Kerrisk

Remove some now documented functions

proc.5

Michael Kerrisk [Jim Paris]

Correct description of SwapFree in /proc/meminfo

Michael Kerrisk

Note change of /proc/[pid]/limits file permissions in 2.6.36

resolv.conf.5

Simon Paillard

Document IPv6 format for nameserver

See: <http://bugs.debian.org/610036>

capabilities.7

Michael Kerrisk [Rens van der Heijden]

Correct URL for POSIX.1e draft

ipv6.7

Gao Feng

Add description of getsockopt() for IPV6_MTU

In IPv4, IP_MTU is only supported by getsockopt.

In IPv6, we can use IPV6_MTU to set socket's MTU,
but the return value of getsockopt() is the path MTU.

rtnetlink.7

Michael Kerrisk [Julien Cristau]

Update description of IFLA_STATS to Linux 2.6+ reality

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=526778>

socket.7

Michael Kerrisk [YOSHIFUJI Hideaki]

Document 'sockaddr' and 'sockaddr_storage' types

Andi Kleen

Explain effect of SO_SNDTIMEO for connect()

When SO_SNDTIMEO is set before connect(), then connect()
may return EWOULDBLOCK when the timeout fires.

==== Changes in man-pages-3.46 =====

Released: 2013-01-27, Canberra

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Apologies if I missed anyone!

New and rewritten pages

kcmp.2

Cyrill Gorcunov, Michael Kerrisk
New page for kcmp(2)

Newly documented interfaces in existing pages

init_module.2

Michael Kerrisk [Kees Cook, Rusty Russell, Lucas De Marchi]
Document finit_module(2)
Rusty Russell [Lucas De Marchi, Kees Cook]
Document finit_module() 'flags' argument
Document MODULE_INIT_IGNORE_MODVERSIONS and
MODULE_INIT_IGNORE_VERMAGIC. (Some edits by mtk.)

New and changed links

finit_module.2

Michael Kerrisk

New link to init_module.2

__after_morecore_hook.3

__free_hook.3

__malloc_initialize_hook.3

__memalign_hook.3

__realloc_hook.3

Michael Kerrisk

New link to malloc_hook.3

Global changes

Various pages

Michael Kerrisk

Global fix: s/tty/terminal/

Changes to individual pages

clone.2

Michael Kerrisk

Add kernel versions for various CLONE_* constants

Michael Kerrisk

CLONE_NEWIPC governs mechanisms that don't have filesystem pathnames

Michael Kerrisk

CLONE_NEWIPC doesn't mount the POSIX

MQ file system

Michael Kerrisk

Add an example program (CLONE_NEWUTS)

Michael Kerrisk

Some reworking of CLONE_NEWIPC text

No substantial content changes.

Michael Kerrisk

SEE ALSO: add kcmp(2)

SEE ALSO: add setns(2)

fallocate.2

Michael Kerrisk

FALLOC_FL_* flags are defined in glibc only since 2.18

getxattr.2

removexattr.2

setxattr.2

Michael Kerrisk [Andrew Perepechko,]

Note that ENOATTR is a synonym for ENODATA

Various people have pointed out that strace(1) shows ENODATA for the case where the named attribute does not exist, or the process has no access to this attribute. ENODATA and ENOATTR are in fact defined as synonyms. Point this out in the man page, so that people understand the strace(1) info.

See https://bugzilla.kernel.org/show_bug.cgi?id=51871

getxattr.2

listxattr.2

removexattr.2

setxattr.2

Michael Kerrisk

Put

errors under ERRORS section

The errno values on these pages were listed in a nonstandard way under the RETURN VALUE section. Put them in ERRORS sections.

init_module.2

Michael Kerrisk [Rusty Russell]

ERRORS: Add errors for module signatures (EBADMSG, ENOKEY)

link.2

mkdir.2

mknod.2

open.2

rename.2

symlink.2

write.2

mkfifo.3

Mark Hills

Document EDQUOT error

The return error EDQUOT is not documented in open(2), write(2), symlink(2) etc.

Whether inodes or disk blocks are required for each function is something I based on received wisdom and BSD documentation, rather than tracing the code to the kernel. For symlink(2) this certainly depends on the file system type.

listxattr.2

Michael Kerrisk [Theodore Ts'o]

Fix RETURN VALUE description

On success, 0 may be returned, so change wording from

"positive number" to "nonnegative number".

outb.2

Michael Kerrisk

Add SYNOPSIS

prctl.2

Kees Cook

Document PR_SET_PTRACER

Document the Yama LSM's prctl handler that allows processes to declare ptrace restriction exception relationships via PR_SET_PTRACER.

Michael Kerrisk

Make it explicit that PR_SET_PTRACER replaces previous setting

The attribute is a scalar, not a list.

Shawn Landden

Document EINVAL error for PR_SET_PTRACER

Michael Kerrisk

Document PR_GET_TID_ADDRESS

ptrace.2

Michael Kerrisk

Document PTRACE_O_EXITKILL

Michael Kerrisk

Place PTRACE_SETOPTIONS list in alphabetical order

query_module.2

Michael Kerrisk

Must be called using syscall(2)

Yes, the call is way obsolete, but add this info for completeness.

recvmsg.2

Elie De Brauer

Add/correct kernel version info for recvmsg() and MSG_WAITFORNONE

This patch isolates the since/version

related fixes as requested.

This change introduces the following delta:

* The page states it was added in 2.6.32 but it is only added 2.6.33 (ref: http://kernelnewbies.org/Linux_2_6_33)

* The MSG_WAITFORONE flag was in turn only added in 2.6.34 (ref: http://kernelnewbies.org/Linux_2_6_34)

Elie De Brauer

Add an example program

setns.2

Michael Kerrisk

Add example program

sigaction.2

Michael Kerrisk [Zsbán Ambrus]

Note feature test macro requirements for 'siginfo_t'

See https://bugzilla.kernel.org/show_bug.cgi?id=52931

syscalls.2

Michael Kerrisk

Add kern_features(2)

Michael Kerrisk

Add utrap_install(2)

Sparc-specific, present since ancient times

Michael Kerrisk

Add finit_module(2)

sysctl.2

Michael Kerrisk [Garrett Cooper]

ERRORS: EACCES as a synonym for EPRM

See https://bugzilla.kernel.org/show_bug.cgi?id=46731

and <http://thread.gmane.org/gmane.linux.ltp/11413/focus=957635>

From: Garrett Cooper <yanegomi <at> gmail.com>

Subject: Re: [LTP] [PATCH] sysctl03: sysctl returns EACCES after 2.6.33-rc1

Newsgroups: gmane.linux.kernel, gmane.linux.ltp

Date: 2010-03-04 18:35:33 GMT

unshare.2

Michael Kerrisk

Update NOTES on unimplemented flags

Michael Kerrisk

Fix text problems in description of CLONE_FS

Michael Kerrisk

SEE ALSO: add kcmp(2)

SEE ALSO: add setns(2)

Michael Kerrisk

Reorder CLONE_NEWUTS entry in list

difftime.3

Michael Kerrisk [Michal Gorny]

Remove crufty text about 'time_t' on "other systems"

Back in 2006, some text came in via Debian patches that seems crufty. Remove it.

See https://bugzilla.kernel.org/show_bug.cgi?id=46731

getaddrinfo.3

getnameinfo.3

Michael Kerrisk [Peter Budny]

Fix some confused references to function names

See https://bugzilla.kernel.org/show_bug.cgi?id=52741

getspnam.3

Michael Kerrisk [Wolfgang Rohdewald]

ERRORS: Add EACCES

See https://bugzilla.kernel.org/show_bug.cgi?id=52681

__setfpucw.3

Michael Kerrisk

Add proper page cross refs for alternate functions

core.5

proc.5

Kees Cook

Clarify suid_dumpable versus core_pattern

In Linux 3.6, additional requirements were placed on core_pattern when suid_dumpable is set to 2. Document this and include commit references.

Justin Lebar

statm's "shared" field refers to pages backed by files

I noticed that statm's "shared" field doesn't match the sum of all the "shared" entries in smaps [1].

The kernel docs explain that statm's "shared" field is "number of pages that are shared (i.e. backed by a file)" [2]. smaps appears to

call a page shared if it's mapped by at least two processes, which explains this discrepancy.

I'm not a kernel hacker, but it appears to me they do mean "i.e." and not "e.g." in the statm description: In fs/proc/task_mmu.c::task_statm, I see

```
*shared = get_mm_counter(mm, MM_FILEPAGES);
```

Here's a patch which updates the man page to match the (hopefully correct) kernel docs.

[1] https://bugzilla.mozilla.org/show_bug.cgi?id=807181

[2]

<http://git.kernel.org/?p=linux/kernel/git/torvalds/linux.git;a=blob;f=Documentation/filesystems/proc.txt;h=a1793d670cd01bd374eddf54ffdfc768504291ff;hb=HEAD>

proc.5

Kees Cook

Put /proc/sys/kernel/hotplug in alphabetical order

Kees Cook

Document /proc/sys/kernel/dmesg_restrict

Kees Cook

Linux 3.4 changed permissions needed to change kptr_restrict

Michael Kerrisk [Samuel Thibault, Simon Paillard]

Add

field numbers for /proc/PID/stat

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=553413>

Add numbering to /proc/stat "cpu" fields

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=553413>

Michael Kerrisk

Reorganize text describing /proc/stat "cpu" fields

Michael Kerrisk

Rewording of suid_dumpable text after comments from Kees Cook

Michael Kerrisk [Samuel Thibault, Simon Paillard]

Add field numbers for /proc/[pid]/statm

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=553413>

Michael Kerrisk

Document /proc/stat "cpu" "nice_guest" field

Info taken from commit [ce0e7b28fb75cb003cfc8d0238613aaf1c55e797](https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/commit/?id=ce0e7b28fb75cb003cfc8d0238613aaf1c55e797)

Michael Kerrisk [Peter Lekeynstein]

Document /prod/[pid]/oom_score_adj

Text taken directly from Documentation/filesystems/proc.txt,
with some light editing.

See https://bugzilla.kernel.org/show_bug.cgi?id=50421

shells.5

Michael

Kerrisk

Add /etc/bash to list of example shells

ttytype.5

Michael Kerrisk

Add proper xref for termcap and terminfo pages

capabilities.7

Michael Kerrisk

Add kcmp(2) under CAP_SYS_PTRACE

man-pages.7

Michael Kerrisk

Update description of Section 7

==== Changes in man-pages-3.47 =====

Released: 2013-02-12, Christchurch

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Apologies
if I missed anyone!

New and rewritten pages

perf_event_open.2

Vincent Weaver
New page documenting perf_event_open(2)

pthread_setname_np.3

Chandan Apsangi, Michael Kerrisk
New page for pthread_setname_np(3) and pthread_getname_np(3)

sln.8

Michael Kerrisk [Peter Schiffer]
New page documenting the 'sln' command provided by glibc
Inspired by a Red Hat downstream page, but with rather
more detail.

Newly documented interfaces in existing pages

prctl.2

Michael Kerrisk [Shawn Landden, Lennart Poettering]
Document PR_SET_CHILD_SUBREAPER and PR_GET_CHILD_SUBREAPER

ip.7

Radek Pazdera

Add source-specific multicast sockopts

This patch adds documentation of several source-specific multicast socket options that were added to kernel with implementation of IGMPv3 in 2.5.68.

The

following socket options were added:

IP_ADD_SOURCE_MEMBERSHIP
IP_DROP_SOURCE_MEMBERSHIP
IP_BLOCK_SOURCE
IP_UNBLOCK_SOURCE
IP_MSFILTER

Pages moved across sections

getcontext.3

Michael Kerrisk

This page really belongs in Section 3 (moved from Section 2)

getdtablesize.3

Michael Kerrisk

Move from Section 2

New and changed links

getcontext.2

Michael Kerrisk

Make link to page moved into Section 3

getdtablesize.2

Michael Kerrisk

Link to renamed getdtablesize.3

setcontext.2

Michael Kerrisk

Modify link to point to Section 3

pthread_getname_np.3

Michael Kerrisk

New link to new pthread_setname_np.3

setcontext.3

Michael Kerrisk

Link to getcontext page renamed into Section 3

Changes to individual pages

fallocate.2

Michael Kerrisk

SEE ALSO: add

fallocate(1)

flock.2

Michael Kerrisk

SEE ALSO: add flock(1)

fork.2

Michael Kerrisk

SEE ALSO: add exit(2)

getpriority.2

Michael Kerrisk

BUGS: note that nice value is per-thread on Linux

getrlimit.2

Michael Kerrisk

SEE ALSO: add prlimit(1)

gettid.2

Michael Kerrisk

SEE ALSO: add various system calls that use thread IDs

ioprio_set.2

Michael Kerrisk

SEE ALSO: add ionice(1)

sched_setaffinity.2

Michael Kerrisk

SEE ALSO: add taskset(1)

sched_setparam.2

Michael Kerrisk

Scheduling policy and parameters are per-thread on Linux

Direct the reader to the discussion in sched_setscheduler(2).

sched_setscheduler.2

Michael Kerrisk

Scheduling policy and parameters are per-thread on Linux

Michael Kerrisk

SEE ALSO: add chrt(1)

setsid.2

Michael Kerrisk

SEE ALSO: add setsid(1)

shmop.2

Michael Kerrisk [Peter Schiffer]

ERRORS: Add EIDRM

Taken from Red Hat downstream patch

sigaction.2

makecontext.3

Michael Kerrisk

Change getcontext/setcontext page ref to Section 3

signal.2

Michael Kerrisk [Reuben Thomas]

Clarify System V vs BSD semantics for signal()

syscalls.2

Michael Kerrisk

The list on this page is not just syscalls common to all platforms

Michael Kerrisk

Add perfctr(2)

Add ppc_rtas(2)

Michael Kerrisk

Add kernel version number of utrap_install(2)

unimplemented.2

Michael Kerrisk [Peter Schiffer]

Remove mention of kernel version number in DESCRIPTION

inet.3

Michael Kerrisk [Peter Schiffer]

Fix error in EXAMPLE using inet_aton()

See https://bugzilla.redhat.com/show_bug.cgi?id=837090

Patch taken from Red Hat downstream.

posix_fallocate.3

Michael Kerrisk

SEE ALSO: add fallocate(1)

regex.3

Reuben Thomas

Clarify details of matching

The first is that it's far from clear that the end points of the complete string match are stored in the zero'th element of the regmatch_t array; secondly, the phrase "next largest substring match" is positively misleading, implying some sort of size ordering, whereas in fact they are ordered according to their appearance in the regex pattern.

scanf.3

Michael Kerrisk

Clarify meaning of "string conversions" for 'm' modifier

Mike Frysinger

Update %a vs %m documentation

POSIX.1-2008 adopted the 'm' flag for dynamic allocation. Update page to cover it and relegate the glibc-specific 'a' flag to NOTES.

strtol.3

Michael Kerrisk [Peter Schiffer]

Replace some bogus text about "thousands separator"

See https://bugzilla.redhat.com/show_bug.cgi?id=652870

sysconf.3

Michael Kerrisk [Peter Schiffer]

Use "_SC_PAGESIZE" consistently on page

s/_SC_PAGE_SIZE/_SC_PAGESIZE/

in one instance.

From Red Hat downstream patch.

nscd.conf.5

Peter Schiffer

Add max-db-size and auto-propagate descriptions, default values, + misc

- * added missing valid services (services and netgroup)

- * added many default values for options

- * reordered options according to the nscd.conf file

(logical order)

- * added 2 missing options: max-db-size and auto-propagate

nsswitch.conf.5

Peter Schiffer

Mention initgroups db

proc.5

Michael Kerrisk

Document /proc/profile

Michael Kerrisk [Peter Schiffer]

Update /proc/sys/fs/file-nr to include Linux 2.6 details

Michael Kerrisk

Clarify relationship between file-max and file-nr

The third value in /proc/sys/fs/file-nr is the same as
the value in /proc/sys/fs/file-max.

Michael Kerrisk

Note message written to kernel log when file-max limit is hit

Info

from Documentation/sysctl/fs.txt.

Michael Kerrisk

Mention lscpu(1) under discussion of /proc/cpuinfo

resolv.conf.5

Michael Kerrisk [Peter Schiffer]

Document "single-request-reopen" option

Taken from Red Hat downstream patch

See https://bugzilla.redhat.com/show_bug.cgi?id=717770

See <http://thread.gmane.org/gmane.linux.man/3161>

utmp.5

Michael Kerrisk

SEE ALSO: add utmpdump(1)

cpuset.7

Simon Paillard

Add missing 'cpuset.' prefix for some flags

See kernel commit e21a05cb408bb9f244f11a0813d4b355dad0822e

svipc.7

Michael Kerrisk

SEE ALSO: add ipcmk(1), ipcrm(1), ipcs(1)

termio.7

Michael Kerrisk

SEE ALSO: add reset(1), setterm(1), stty(1), tty(4)

ld.so.8

Michael Kerrisk [Peter Schiffer]

LD_VERBOSE does not work with ld.so --list and --verify

From Red Hat downstream patch

See https://bugzilla.redhat.com/show_bug.cgi?id=532629

Michael

Kerrisk

SEE ALSO: add sln(8)

zdump.8

Michael Kerrisk [Peter Schiffer]

Bring up to date with zdump --help
Patch taken from Red Hat downstream.

===== Changes in man-pages-3.48 =====

Released: 2013-03-05, Munich

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Zack Weinberg <zackw@panix.com>

Apologies if I missed anyone!

New and rewritten pages

getunwind.2

Marcela Maslanova

New page documenting getunwind(2)

Taken from Red Hat downstream man pages set

Michael Kerrisk

Much rewriting

Some text taken from arch/ia64/kernel/unwind.c.

perfmonctl.2

Ivana Varekova

New page documenting IA-64-specific perfmonctl(2)

Taken from Red Hat downstream man pages

Michael Kerrisk

Rework discussion of PFM_CREATE_CONTEXT

Add VERSIONS and CONFORMING TO

Note that there

is no glibc wrapper

Remove PFM_CREATE_EVTSETS, PFM_DELETE_EVTSETS, PFM_GETINFO_EVTSETS

These don't exist, and it appears they never have.

Fix argument types for PFM_WRITE_PMCS, PFM_WRITE_PMDS, PFM_READ_PMDS

The types that were being used don't exist!

Briefly document PFM_GET_FEATURES, PFM_DEBUG, PFM_GET_PMC_RESET_VAL

gai.conf.5

Ulrich Drepper

New page documenting gai.conf

Taken from Red Hat downstream pages

nss.5

Ulrich Drepper

New page describing nss.conf

Newly documented interfaces in existing pages

clock_getres.2

Cyril Hrubis

Document CLOCK_REALTIME_COARSE and CLOCK_MONOTONIC_COARSE

Cyril Hrubis

Document CLOCK_BOOTTIME

Michael Kerrisk

Some improvements to CLOCK_BOOTTIME description

ptrace.2

Denys Vlasenko

Document PTRACE_GETREGSET, PTRACE_SETREGSET, PTRACE_SEIZE, and friends

Document PTRACE_GETREGSET,
PTRACE_SETREGSET,
PTRACE_SEIZE, PTRACE_INTERRUPT, and PTRACE_LISTEN.

New and changed links

fattach.2

fdetach.2

getmsg.2

isastream.2

putmsg.2

Michael Kerrisk [Peter Schiffer]

New link to unimplemented.2

Taken from Red Hat downstream.

See https://bugzilla.redhat.com/show_bug.cgi?id=436407

Global changes

Many pages

Michael Kerrisk

Global fix: remove unneeded double quotes in .SH headings

Many pages

Michael Kerrisk

Global fix: remove unneeded double quotes in .SS headings

Many pages

Michael Kerrisk

Global fix: use consistent capitalization in .SS headings

Capitalization in .SS sections across pages (and sometimes even within a single page) is wildly inconsistent. Make it consistent.

Capitalize first word in heading, but otherwise use lower case, except where English usage (e.g., proper nouns) or programming language requirements (e.g., identifier names) dictate otherwise.

Many pages

Michael Kerrisk [Denys Vlasenko]

Remove double blank lines in output

Various pages

Michael Kerrisk

Fix order of SH sections

Changes to individual pages

accept.2

Michael Kerrisk

NAME: Add "accept4"

access.2

Colin Walters

Note that access() may also fail for FUSE

Since in some cases (e.g. libguestfs's guestmount) it also has the semantics where files can appear owned by root, but are actually mutable by the user, despite what one might infer from the Unix permissions.

getpeername.2

Michael Kerrisk [Kai Kunschke]

Clarify semantics of getpeername() for datagram sockets

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=674034>

getuid.2

Michael Kerrisk

Remove duplicate section heading

mmap.2

Cyril Hrubis

Add note

about partial page in BUGS section

This adds a note about Linux behavior with partial page at the end of the object. The problem here is that a page that contains only part of a file (because the file size is not multiple of PAGE_SIZE) stays in page cache even after the mapping is unmapped and the file is closed. So if some process dirties such page, other mappings will see the changes rather than zeroes.

Michael Kerrisk [Török Edwin]

Some 'flags' values require a feature test macro to be defined

Add text to NOTES noting that some MAP_* constants are defined only if a suitable feature test macro is defined.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=542601>

Cyril Hrubis

Document EOVERFLOW error

open.2

Michael Kerrisk

Clarify list of file creation flags

POSIX.1-2008 TC1 clarified this, so that O_CLOEXEC, O_DIRECTORY,

and O_NOFOLLOW are also in this list.

prctl.2

Cyrill Gorcunov

Add some details for PR_GET_TID_ADDRESS

read.2

Michael Kerrisk [Zack Weinberg]

Clarify interaction of count==0 and error checking

POSIX deliberately leaves this case open, so the man page should be less specific about what happens.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=533232>

Michael Kerrisk [Marc Lehmann]

Remove crufty text about O_NONBLOCK on files

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=700529>

Michael Kerrisk

Clarify details for seekable files

unimplemented.2

Michael Kerrisk [Peter Schiffer]

Add various STREAMS interfaces to NAME

Taken from Red Hat downstream.

See https://bugzilla.redhat.com/show_bug.cgi?id=436407

cexp2.3

Michael Kerrisk

Still does not exist in glibc 2.17

exit.3

Michael Kerrisk

Note that a call to execve()

clears exit handler registrations

getaddrinfo.3

Michael Kerrisk

SEE ALSO: Add gai.conf(5)

malloc_trim.3

Michael Kerrisk

Remove duplicate section title

printf.3

Marshel Abraham [Graham Gower, Graham Gower]

Fix error handling in example code

See https://bugzilla.kernel.org/show_bug.cgi?id=23282

pthread_yield.3

Michael Kerrisk [Aristeu Rozanski]

Add `_GNU_SOURCE` feature test macro to SYNOPSIS

resolver.3

resolv.conf.5

Michael Kerrisk [Nathan Stratton Treadway, Simon Heimberg]

`RES_DEBUG` is only available if glibc is compiled with debug support

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=692136>

and https://bugzilla.kernel.org/show_bug.cgi?id=43061

strtol.3

Michael Kerrisk [Peter Schiffer]

Remove crufty text from previous fix

core.5

Michael Kerrisk

Document `CONFIG_COREDUMP`

capabilities.7

Andrey Vagin

Nonexistent bits are no longer shown as set

in `/proc/PID/status Cap*`

inotify.7

Michael Kerrisk

A monitoring process can't easily distinguish events triggered by itself

ip.7

Flavio Leitner [Peter Schiffer]

Improve explanation about calling `listen()` or `connect()`

man-pages.7

Michael Kerrisk

Describe rules for capitalization in `.SS` headings

rtnetlink.7

Pavel Emelyanov

Add info about ability to create links with given index

Since kernel v3.7 the `RTM_NEWLINK` message now accepts nonzero

values in `ifi_index` field. Mention this fact in the respective

`rtnetlink.7` section.

socket.7

Pavel Emelyanov

`SO_BINDTODEVICE` is now readable

`SO_BINDTODEVICE` is readable since kernel 3.8.

Released: 2013-03-10, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

Michael Kerrisk <mtk.manpages@gmail.com>

Global changes

The goal of the changes below to consistently format copyright and license information in the comments in the page source at the top of each page. This allows for easy scripting to extract that information. Following these changes the comments the top of the page source should now consistently have the form:

```
.\ " <copyright info, possibly spread over several lines>
.\ "
.\ " %%%LICENSE_START(<license-type>)
.\ " <license text>
.\ " %%%LICENSE_END
.\ " <other comments>
```

Note that the 'license-type' is merely descriptive. Its purpose is to simplify scripting for the purpose of gathering statistics on types of licenses used in man-pages. It is NOT a statement about the actual licensing of the page; that license is contain INSIDE the LICENSE_START...LICENSE_END clause.

All pages

Michael Kerrisk

Add a LICENSE_START()...LICENSE_END clause

in source at

top of each page that encapsulates the license text.

Michael Kerrisk

Put copyright info at top of page, followed by blank line and LICENSE

Various pages

Michael Kerrisk

Update info in source comments on where to get a copy of the GPL

Various pages

Michael Kerrisk

Remove "Hey Emacs" comment in page source

Only certain pages have this; there is no consistency, so
remove it from all pages

Michael Kerrisk

Remove "-*- nroff -*-" comment at top of source

===== Changes in man-pages-3.50 =====

Released: 2013-03-15, Munich

Contributors

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Simon Paillard <spillard@debian.org>

Apologies if I missed anyone!

New and rewritten pages

canonicalize_file_name.3

Michael Kerrisk

Rewrite page, adding much more detail

Global changes

Various pages

Michael Kerrisk

Global fix: s/END_LICENSE/LICENSE_END/

Various pages

Michael Kerrisk

Global fix: s/bitmask/bit mask/

Changes to individual pages

getent.1

Mark R Bannister

netgroup description incorrectly refers to initgroups

capget.2

Michael Kerrisk

Update URL for libcap

fork.2

Michael Kerrisk

Port access permission bits (ioperm()) are turned off in the child

futex.2

Michael Kerrisk

'timeout' is a minimum duration that the call will wait, not a maximum

ioperm.2

Michael Kerrisk

Note that iopl() level of 3 is needed to access ports

Michael Kerrisk

'num' is *bits* not bytes!

Michael Kerrisk

Linux 2.6.8 lifted the port limit to 65,536

See <http://article.gmane.org/gmane.linux.kernel/202624/>

From: Stas Sergeev <stsp@aknet.ru>

Subject: [patch][rfc] Larger IO bitmap

Date: 2004-05-07 19:55:03 GMT

Michael Kerrisk

ioperm() operates on the calling *thread* (not process)

Michael Kerrisk

Clarify meaning of 'turn_on' argument

Plus form formatting fixes.

Michael Kerrisk

Clarify that default state of permission bits in child is off

Michael Kerrisk

NOTES: add mention of /proc/ioports

Michael Kerrisk

SEE ALSO: add outb(2)

iopl.2

Michael Kerrisk

CAP_SYS_RAWIO is required

to **raise** the I/O privilege level

Michael Kerrisk

Clarify that the two least significant bits of 'level' are what matter

Michael Kerrisk

SEE ALSO: add outb(2)

syscalls.2

Michael Kerrisk

Add version information for all (other) syscalls

Michael Kerrisk

Add perfmonctl(2)

futimes.3

Michael Kerrisk [Jonathan Nieder]

ERRORS: Add ENOSYS for lutimes()

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=620746>

getpass.3

Michael Kerrisk [Erik Saule]

Suggest use of the ECHO flag as an alternative

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=644261>

realpath.3

Michael Kerrisk

Document GNU extensions for EACCES and ENOENT errors

stdarg.3

Michael Kerrisk [Friedrich Delgado Friedrichs]

Describe va_copy()

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=575077>

termios.3

Michael Kerrisk [Bernhard Kuemel]

Mention that noncanonical mode

does not do input processing

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=643854>

random.4

Elie De Brauwier

Document write and document the ioctl interface of /dev/random

The update consists out of two parts:

- a minor thing which just documents what happens if a write to /dev/(u)random is performed, which is used in the example script but not explicitly mentioned.
- the other (biggest) part is the documentation of the ioctl() interface which /dev/(u)random exposes. This ioctl() lives in drivers/char/random.c and the primitives can be found in include/linux/random.h

One comment remains, there used to be an RNDGETPOOL ioctl() which disappeared in v2.6.9. I found two patches on the net:

- <http://www.kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.8.1/2.6.8.1-mm4/broken-out/dev-random-remove-rndgetpool-ioctl.patch>
- <https://lkml.org/lkml/2004/3/25/168>

But as far as I can tell the first one got applied but the 2nd one seems more correct. The result is that even today one can still find traces of the RNDGETPOOL ioctl() in the header files. Is this there for historical reasons or because it might break userspace, even though using it will just give an EINVAL.

bootparam.7

Jose Luis Domingo Lopez

Document 'rootfstype' option

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=182014>

capabilities.7

Michael Kerrisk

Add various pieces under CAP_SYS_RAWIO

Info obtained by grepping the kernel source.

Michael Kerrisk

Add CAP_SYS_RESOURCE /proc/PID/oom_score_adj case

netlink.7

Andrey Vagin

Add a note about broadcast messages to multiple groups

socket.7

Michael Kerrisk [Florian Weimer]

Define _GNU_SOURCE to obtain the definition of 'struct ucred'

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=572210>

==== Changes in man-pages-3.51 =====

Released: 2013-04-17, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

sched_rr_get_interval.2

Michael Kerrisk

Document /proc/sys/kernel/sched_rr_timeslice_ms

proc.5

Pavel Emelyanov

Document /proc/[pid]/map_files directory

This directory was added in Linux v3.3 and provides info about

files being mmap-ed in a way very similar to how /proc/[pid]/fd works.

v2: Added examples of how links look like and noted dependency on kernel config option CONFIG_CHECKPOINT_RESTORE.

Michael Kerrisk

Document /proc/sys/kernel/shm_rmid_forced

capabilities.7

Michael Kerrisk

Document /proc/sys/kernel/cap_last_cap

Global changes

Various pages

Michael Kerrisk

Global

fix: fix placement of word "only"

Various pages

Simon Paillard

License headers: consistent format

Various pages

Michael Kerrisk

Global fix: s/since kernel/since Linux/

Various System V IPC pages in Section 2

Michael Kerrisk

Add "System V" to .TH line and text

Make it clear that these pages relate to System V IPC,
not POSIX IPC.

Changes to individual pages

access.2

Michael Kerrisk [The Wanderer]

Clarify RETURN VALUE for F_OK

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=705293>

alarm.2

Michael Kerrisk

Correct the description of behavior when 'seconds' is 0

clone.2

Michael Kerrisk [Peter Schiffer]

Add prototype for syscall to SYNOPSIS

And further clarify the distinction between the system call and the wrapper function in the introductory text.

Michael Kerrisk

Update feature test macro requirements

The requirements quietly changed in glibc 2.14

See also http://www.sourceware.org/bugzilla/show_bug.cgi?id=4749

Michael Kerrisk [Mike Frysinger]

Clarify differences between clone2() syscall and wrapper function

Michael Kerrisk [Mike Frysinger]

Note those architectures where the sys_clone argument order differs

Michael Kerrisk [Mike Frysinger]

Add short subsection noting that blackfin, m68k, and sparc are different

Michael Kerrisk

Move clone2() text to subsection in description

The description of ia64 clone2() should follow the discussion of the raw system call interface.

Michael Kerrisk

Change subhead for ia64 discussion

getcpu.2

Michael Kerrisk

Recommend that 'tcache' should be specified as NULL nowadays

io_cancel.2

Jeff Moyer, Michael Kerrisk [Cyril Hrubis]

Improve description

io_destroy.2

Jeff Moyer

Improve description

The

description was rather vague, citing a "list of I/O contexts"

and stating that it "can" cancel outstanding requests. This

update makes things more concrete so that the reader knows exactly

what's going on.

io_getevents.2

Jeff Moyer

The 'timeout' argument is not updated

I looked back through the kernel code, and the timeout was never updated in any case. I've submitted a patch upstream to change the comment above io_getevents.

io_setup.2

Jeff Moyer

Clarify nr_events

nr_events is technically the number of completion events that can be stored in the completion ring. The wording of the man page: "capable of receiving at least nr_events" seems dubious to me, only because I worry that folks might interpret that to mean 'nr_events' total, instead of 'nr_events' concurrently.

Further, I've added information on where to find the per-user

limit on 'nr_events', /proc/sys/fs/aio-max-nr. Let me know if you think that is not relevant.

listxattr.2

Michael Kerrisk

Explain use of 'size' argument

lseek.2

Michael Kerrisk [Andreas Jaeger]

_GNU_SOURCE must be defined to get SEEK_DATA and SEEK_HOLE definitions

See http://sourceware.org/bugzilla/show_bug.cgi?id=15312

mmap.2

Michael Kerrisk

Add pointers to relevant /proc files described in proc(5)

posix_fadvise.2

pread.2

readahead.2

sync_file_range.2

truncate.2

Michael Kerrisk

Refer to syscall(2) for ABI semantics on certain 32-bit architectures

Also: in sync_file_range.2 and posix_fadvise.2 remove description of conventional calling signature as flawed, and in

posix_fadvise.2, de-emphasize focus on ARM, and rather phrase as a more general discussion of certain architectures.

readdir.2

Michael Kerrisk

readdir(2) doesn't exist on x86-64

semop.2

Michael Kerrisk

Clarify the discussion of 'semadj'

shmctl.2

Michael Kerrisk

Refer to proc(5) for description of /proc/sys/kernel/shm_rmid_forced

syscall.2

Changhee Han

Add notes that caution users when passing arguments to syscall()

For example, passing 'long long' on ARM-32 requires special treatment.

Mike Frysinger [Michael Kerrisk]

Document the exact calling convention for architecture system calls

Mike Frysinger [Kyle McMartin]

Add PA-RISC details under calling conventions

Michael Kerrisk [Mike Frysinger]

Refine discussion of ARM and other ABIs

syscalls.2

Michael Kerrisk

Update kernel version number at start of list

umask.2

Michael Kerrisk

SEE ALSO: add acl(5)

unshare.2

Michael Kerrisk

Update feature test macro requirements

The requirements quietly changed in glibc 2.14

See also http://www.sourceware.org/bugzilla/show_bug.cgi?id=4749

fopencookie.3

Michael Kerrisk [Ralph Loader]

Correct definition of cookie_io_functions_t

pthread_setname_np.3

Andrew Clayton

The thread argument is passed in by value

readdir.3

seekdir.3

telldir.3

Michael Kerrisk

Eliminate the implication that these functions deal with "offsets"

The directory position dealt with by the readdir() and friends is not a simple file offset in modern file systems.

Typically, it is some kind of cookie value. Add text and make other changes to these pages to eliminate the

implication that this is an offset, and warn the reader

that directory positions should be treated strictly as opaque values.

In the process, rename the 'offset' argument of seekdir(3) to 'loc', and add some text to readdir(3) to note that the 'd_off' field is the same value returned by telldir(3) at the current directory position.

See also <https://lwn.net/Articles/544298/>

scalb.3

Mark H Weaver

Fix prototypes for scalbf() and scalbl()

sched_getcpu.3

Michael Kerrisk

Update feature test macro requirements

The requirements quietly changed in glibc 2.14

See also http://www.sourceware.org/bugzilla/show_bug.cgi?id=4749

ualarm.3

Michael Kerrisk [Nicolas Hillegeer]

Add note on the behavior when 'usecs' is zero

POSIX.1-2001 does not specify the behavior in this case and no other system that I checked documented the behavior.

Probably, most or all systems do what Linux does in this case: cancel any pending alarm, just as alarm(0) does.

Add that info in NOTES.

elf.5

Mike Frysinger

Add byte positions for all EI_xxx fields

When describing e_ident, most of the EI_xxx defines mention the exact byte number.

This is useful when manually hacking an ELF

with a hex editor. However, the last few fields don't do this, which means you have to count things up yourself.

Add a single word to each so you don't have to do that.

proc.5

Michael Kerrisk

Refer to sched_rr_get_interval(2) for info on sched_rr_timeslice_ms

Since Linux 3.9, /proc/sys/kernel/sched_rr_timeslice_ms can be used to change the SCHED_RR quantum.

Michael Kerrisk

SEE ALSO: Add sysctl(8)

Krzysztof Konopko

Simplify the example of printing out environ

The binutils package contains a very handy utility to print out null-byte delimited strings from a file. This can replace a rather complex expression with cat(1) provided as an example for printing out /proc/[pid]/environ.

Michael Kerrisk

Update /proc/PID/maps example

Update to 64-bit example that includes "[heap]", "[stack], and "[vdso]"

Michael Kerrisk

Formatting fixes for /proc/PID/maps

Mike Frysinger

Document the "pathname" field of /proc/PID/maps

Michael Kerrisk

Add reference to capabilities(7) for /proc/sys/kernel/cap_last_cap

Michael Kerrisk

/proc/PID/maps: add a reference to mmap(2)

ip.7

Radek Pazdera

Document IP_MULTICAST_ALL

This commit adds documentation for the IP_MULTICAST_ALL socket option.

The option was added to the Linux kernel in 2.6.31:

Author Nivedita Singhvi <niv@us.ibm.com>

Commit f771bef98004d9d141b085d987a77d06669d4f4f

The description is based on a previous one [3] posted by the original author of the code -- Nivedita, but it is slightly re-worded.

I tested it myself and it works as described.

References:

[1] http://lxr.free-electrons.com/source/net/ipv4/ip_sockglue.c#L972

[2] <http://lxr.free-electrons.com/source/net/ipv4/igmp.c#L2267>

[3] <http://patchwork.ozlabs.org/patch/28902/>

units.7

Brian M. Carlson

units should use an actual μ

The units(7) man page uses an ASCII u in place of the actual Greek letter mu. Since we're in the twenty-first century, with UTF-8-compatible terminals and terminal emulators, we should use the actual letter μ instead of an ASCII approximation.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=704787>

==== Changes in man-pages-3.52 =====

Released: 2013-07-04, Christchurch

Contributors

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

perf_event_open.2

Vince Weaver

Add

PERF_IOC_FLAG_GROUP documentation

The perf_event_open() ENABLE/DISABLE/RESET ioctls can take an argument, PERF_IOC_FLAG_GROUP. This wasn't documented at all until about a year ago (despite the support being there from the beginning) so I missed this when initially writing the man page.

socket.7

Pavel Emelyanov, Michael Kerrisk

Document SO_PEEK_OFF option

Since Linux 3.4 there appeared an ability to specify the offset in bytes from which the data will be MSG_PEEK-ed. Describe this socket option in the socket(7) page, where all the other socket options are described.

Global changes

Various pages

Michael Kerrisk

Convert inline formatting (\fX...\fP) to dot-directive formatting

readdir.2

asprintf.

getline.3

getlogin.3

pthread_setname_np.3

readdir.3

strerror.3

Michael Kerrisk [Jon Grant]

Clarify that terminating null byte is

'\0'

Changes to individual pages

execve.2

Peter LaDow

Add envp to the Linux notes about NULL pointers

During the review of static analysis results, we discovered a functional, but non-portable, use of execve(). For example:

```
char *cmd[] = { "/path/to/some/file", NULL };
execve(cmd[0], cmd, NULL);
```

The call succeeds. Yet, the static analysis tool (rightly) pointed out that `envp` could be dereferenced. But digging into `glibc` and the kernel, it appears that like `argv`, `envp` when `NULL` is treated as if it were an empty list.

So, to clear things up, I'm submitting this patch to update the man page to indicate that `envp` is treated like `argv`.

fallocate.2

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

io_setup.2

Cyril Hrubis [Jeff Moyer]

Clarify the `nr_events` parameter

Currently the `io_setup.2` man page describes what the kernel really does, i.e., that the resulting context may be able to hold more than the '`nr_event`'s operations because the memory allocated in kernel is rounded to be multiple of page size.

It is better not to expose this implementation detail and simply state that the resulting context is suitable for '`nr_events`' operations.

perf_event_open.2

Vince Weaver

Clarify the `perf_event_open()` `wakeup_events/wakeup_watermark` fields

Clarify the `perf_event_open()` `wakeup_events/wakeup_watermark` fields a bit, based on info from kernel commit `cfeb1d90a1b1`.

Vince Weaver

Update to match the Linux 3.10 release

This patch updates the `perf_event_open()` documentation to include new interfaces added in the 3.10 kernel.

It also documents a few [To be documented] instances left over from the 3.7 kernel.

Vince Weaver

Small correction to description of 'flags' argument

prctl.2

Michael Kerrisk

Note equivalents of `PR_SET_NAME`

`pthread_setname_np()` and `pthread_getname_np()` and

/proc/self/task/TID/comm provide access to the same attribute.

pread.2

Michael Kerrisk []

pread() and pwrite() are especially useful in multithreaded applications

recv.2

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

semctl.2

Michael Kerrisk [Simone Piccardi]

'sem_nsems' is 'unsigned long' since Linux 2.4

shmget.2

Michael Kerrisk

Rewrite RETURN VALUE and mention that 'errno' is set on error

sigaction.2

Michael Kerrisk [Brian Norris]

RETURN VALUE: mention that 'errno' is set on error

signal.2

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

sigpending.2

Michael Kerrisk

RETURN VALUE: mention that 'errno'

is set on error

sigprocmask.2

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

sigsuspend.2

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

syscall.2

Mike Frysinger

Document s390/s390x calling convention

a64l.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function l64a() is not thread safe.

abs.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions abs(), labs(), llabs() and imaxabs() are thread-safe.

aio_error.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function aio_error() is thread safe.

aio_return.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function aio_return() is thread safe.

alloca.3

Adrian Bunk

Correct information on getting non-inlined version with gcc+glibc
- remove the incorrect information
that -fno-builtin would help
- add -std=c11 to the list of strict options
- emphasize more that both the gcc option and not including
alloca.h are needed
- add the #ifdef from the glibc alloca.h to make the situation
clearer

bindresvport.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
Before glibc 2.17, bindresvport() is not thread-safe.
Since glibc 2.17, it is thread-safe, the patch can refer to URL:
<http://sourceware.org/git/?p=glibc.git;a=commit;h=f6da27e53695ad1cc0e2a9490358decbbfdff5e5>

canonicalize_file_name.3

Michael Kerrisk

Put CONFORMING TO section in right location

catgets.3

Michael Kerrisk [Jon Grant]

Clarify that null byte is '\0'

ceil.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions ceil(), ceilf() and ceill() are thread safe.

cimag.3

Peng Haitao

ATTRIBUTES:

Note functions that are thread-safe

The functions cimag(), cimagf() and cimagl() are thread safe.

clock_getcpuclockid.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function clock_getcpuclockid() is thread safe.

conj.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions conj(), conjf() and conjl() are thread safe.

crypt.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function crypt() is not thread safe.

ctermid.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function ctermid() is thread safe with exceptions.

dirfd.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

drand48.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions drand48(), erand48(), lrand48(), nrand48(),
mrand48(), jrand48(),
srand48(), seed48() and lcong48() are
not thread safe.

ecvt.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions ecvt() and fcvt() return a string located in a
static buffer which is overwritten by the next call to the
functions, so they are not thread-safe.

encrypt.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions `encrypt()` and `setkey()` are not thread safe.

`ether_aton.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions `ether_aton()` and `ether_ntoa()` are not thread safe.

`fcloseall.3`

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `fcloseall()` is not thread safe.

`ferror.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `ferror()`, `clearerr()`, `feof()` and `fileno()` are thread safe.

`fgetgrent.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`fgetpwent.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`fgetwc.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`fmtmsg.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

Before glibc 2.16, `fmtmsg()` is not thread-safe.

Since glibc 2.16, it is thread-safe, the patch can refer to URL:

<http://sourceware.org/git/?p=glibc.git;a=commit;h=7724defcf8873116fe4efab256596861eef21a94>

`fputwc.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`getdate.3`

Peng Haitao

ATTRIBUTES: Note functions that are and aren't thread-safe

`getgrent.3`

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `getgrent()` is not thread safe.

`getgrnam.3`

Peng Haitao

ATTRIBUTES: Note functions that are and aren't thread-safe

`getline.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`getlogin.3`

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `getlogin()` is not thread safe.

The function `cuserid()` is thread-safe with exceptions.

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`getpass.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

`getpwent.3`

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `getpwent()` is not thread safe.

`getpwnam.3`

Peng Haitao

ATTRIBUTES: Note functions that are and aren't thread-safe

`getspnam.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`getttyent.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

`getusershell.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The

functions `getusershell()`, `setusershell()` and `endusershell()`

are not thread safe.

`getutent.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

hsearch.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

hsearch.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions hsearch(), hcreate() and hdestroy() are not thread-safe.

localeconv.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The function localeconv() returns a pointer to a structure which might be overwritten by subsequent calls to localeconv() or by calls to setlocale(), so it is not thread-safe.

Peng Haitao

Add RETURN VALUE section

malloc_info.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

mblen.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function mblen() is not thread safe.

mbrlen.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function mbrlen() is thread safe with exceptions.

mbrtowc.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function mbrtowc() is thread safe with exceptions.

mktemp.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

modf.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `modf()`, `modff()` and `modfl()` are thread safe.

`popen.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`pthread_attr_setinheritsched.3`

Michael Kerrisk

Note the scheduling attributes affected by this function

`pthread_attr_setschedparam.3`

`pthread_attr_setschedpolicy.3`

`pthread_attr_setscope.3`

Michael Kerrisk [Manuel Traut, Siddhesh Poyarekar]

The inherit-scheduler attribute must be set

to `PTHREAD_EXPLICIT_SCHED`

In order for the attributes set by these functions to have an effect, the caller must use `pthread_attr_setinheritsched(3)` to set the inherit-scheduler attribute of the attributes object to `PTHREAD_EXPLICIT_SCHED`.

`ptsname.3`

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `ptsname()` is not thread safe.

`putenv.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`putpwent.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

`qecvt.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions `qecvt()` and `qfcvt()` are not thread-safe.

`random.3`

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

Michael Kerrisk

Add `EINVAL` error for `setstate()`

Michael Kerrisk

BUGS: `initstate()` does not return `NULL` on error

http://sourceware.org/bugzilla/show_bug.cgi?id=15380

random_r.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

readdir.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The data returned by readdir() may be overwritten by subsequent calls to readdir() for the same directory stream, so it is not thread-safe.

re_comp.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions re_comp() and re_exec() are not thread safe.

rexec.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions rexec() and rexec_af() are not thread safe.

round.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions round(), roundf() and roundl() are thread safe.

scalbn.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions scalbn(), scalbnf(),
scalbnl(), scalbln(),
scalblnf() and scalblnl() are thread safe.

scandir.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

siginterrupt.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

signbit.3

Peng Haitao

ATTRIBUTES: Note macro that is thread-safe

The macro signbit() is thread safe.

sigsetops.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

stdio_ext.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions `__fbufsize()`, `__fpending()`, `__fpurge()` and `__fsetlocking()` are not thread safe.

strdup.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

strerror.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `strerror()` is not thread safe.

strftime.3

Michael Kerrisk

Clarify details of return value

Michael

Kerrisk

BUGS: 'errno' is not set if the result string would exceed 'max' bytes

strtok.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `strtok()` is not thread safe.

Michael Kerrisk [Georg Sauthoff]

Add more detail on the operation of `strtok()`

Add a number of missing details on the operation of `strtok()`

tempnam.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

timegm.3

J r mie Galarneau

copy the string returned by `getenv()`

The example of a portable version of `timegm()` uses the string returned by `getenv()` after calling `setenv()` on the same environment variable. The `tz` string may be invalid as per `getenv.3`:

"The string pointed to by the return value of `getenv()` may be statically allocated, and can be modified by a subsequent call to `getenv()`, `putenv(3)`,

setenv(3), or
unsetenv(3)."

tmpnam.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function tmpnam() is thread safe with exceptions.

trunc.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions trunc(), truncf() and truncf() are thread safe.

ttynam.3

Michael Kerrisk

ATTRIBUTES: Note functions that are and aren't thread-safe

ttyslot.3

Michael Kerrisk

ATTRIBUTES: Note functions that are not thread-safe

usleep.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

wcsdup.3

Michael Kerrisk

RETURN VALUE: mention that 'errno' is set on error

core.5

Michael Kerrisk

Implicitly adding the PID to a core filename was dropped in 2.6.27

proc.5

Michael Kerrisk

Document /proc/[pid]/fd/ anon_inode symlinks

Mike Frysinger

Document /proc/[pid]/fd/ symlinks a bit more

Describe the type:[inode] syntax used in this dir

bootparam.7

Michael Kerrisk [Dan Jacobson]

Remove outdated text on LILO and LoadLin

Strike the discussion of LILO and LoadLin, which
are long obsolete, and make a brief mention of GRUB.

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=604019>

Regid

Remove mention of the deprecated rdev(8)

The deprecated rdev(8) command was removed from util-linux in 2010.

See <https://git.kernel.org/?p=utils/util-linux/util-linux.git;a=commit;h=a3e40c14651fccf18e7954f081e601389baefe3f0>

Andrea Remondini

Document the 'resume' boot parameter

inotify.7

Michael Kerrisk [Jon Grant]

Clarify that null byte is '\0'

iso_8859-2.7

Eric S. Raymond

Remove incorrect reference to nonexistent groff glyph `\[shc]`

The reference incorrectly attempted to duplicate an actual soft hyphen (hex 0xad) just before it in the file.

man-pages.7

Peng Haitao

Add description of "ATTRIBUTES"

"ATTRIBUTES" section can mention thread safety, cancellation safety, and async-cancel-safety.

socket.7

Michael Kerrisk

Note that 'optval' for socket options is an 'int' in most cases

tcp.7

Michael Kerrisk

Note that 'optval' for socket options is an 'int' in most cases

udp.7

Michael Kerrisk

Note that 'optval' for socket options is an 'int' in most cases

==== Changes in man-pages-3.53 =====

Released: 2013-07-31, Munich

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Apologies if I missed anyone!

New and rewritten pages

restart_syscall.2

Michael Kerrisk

New page for restart_syscall(2) system call

Newly documented interfaces in existing pages

fchownat.2

Michael Kerrisk

Document AT_EMPTY_PATH

fstatat.2

Michael Kerrisk

Document AT_EMPTY_PATH

linkat.2

Michael Kerrisk

Document AT_EMPTY_PATH

open.2

Michael Kerrisk [Al Viro]

Document O_PATH

See also https://bugzilla.redhat.com/show_bug.cgi?id=885740

Changes to individual pages

clock_nanosleep.2

futex.2

nanosleep.2

poll.2

sigaction.2

sigreturn.2

signal.7

Michael Kerrisk

SEE ALSO: add restart_syscall(2)

open.2

Michael Kerrisk [Geoffrey Thomas]

Remove warning that O_DIRECTORY is only for use with opendir(3)

O_DIRECTORY can also be used with, for example, O_PATH.

perf_event_open.2

Vince Weaver

Improve PERF_SAMPLE_BRANCH_STACK documentation

Vince Weaver

Fix indentation of the MMAP layout section

The indentation of the MMAP layout section wasn't quite right.

I think this improves things but I admit I'm not an expert at the low-level indentation directives.

Vince Weaver

Update PERF_IOC_FLAG_GROUP info

It turns out PERF_IOC_FLAG_GROUP was broken from 75f937f24bd9

(in Linux 2.6.31, the initial perf_event release) until

724b6daa1 (Linux 3.4).

I've done some extensive kernel source code digging plus

running tests of various kernels and I hope the info presented is accurate now.

(Patch edited somewhat by mtk.)

Vince Weaver

Improve sysfs files documentation

This improves the documentation of the various perf_event_open()-related sysfs files.

ptrace.2

Denys Vlasenko [Oleg Nesterov, Dmitry V. Levin]

If SEIZE was used, initial auto-attach stop is EVENT_STOP

For every PTRACE_O_TRACEfoo option, mention that old-style SIGSTOP is replaced by PTRACE_EVENT_STOP if PTRACE_SEIZE attach was used.

Mention the same thing again in the description of PTRACE_EVENT_STOP.

Denys Vlasenko [Oleg Nesterov, Dmitry V. Levin]

Mention that PTRACE_PEEK* libc API and kernel API are different

Denys Vlasenko [Oleg Nesterov, Dmitry V. Levin]

Clarify PTRACE_INTERRUPT, PTRACE_LISTEN, and group-stop behavior

readlink.2

Michael Kerrisk

Document use of empty

'pathname' argument

Michael Kerrisk

Change error check in example program from "< 0" to "== -1"

Chuck Coffing

Fix possible race condition in readlink.2 example

I noticed that the example in the readlink.2 man pages does error checking for a race condition that would cause the value of the symbolic link to get larger. However, it doesn't handle the opposite case, in which the value gets shorter. (The NULL terminator is always set at the old, longer offset.) This could cause the program to operate on uninitialized data.

setpgid.2

Michael Kerrisk [Graud]

s/SIGTSTP/SIGTTIN/ when discussing reads from terminal

See https://bugzilla.kernel.org/show_bug.cgi?id=60504

clog2.3

Michael Kerrisk

Note that these functions are still not present in glibc 2.17

dirfd.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function

dirfd() is thread safe.

div.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions div(), ldiv(), lldiv() and imaxdiv() are thread safe.

fabs.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions fabs(), fabsf() and fabsl() are thread safe.

fdim.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions fdim(), fdimf() and fdiml() are thread safe.

fflush.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function fflush() is thread safe.

finite.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions finite(), finitf(), finitel(), isinf(), isinff(),
isinfl(), isnan(), isnanf() and isnanl() are thread safe.

flockfile.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions flockfile(), frylockfile() and funlockfile()
are
thread safe.

floor.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions floor(), floorf() and floorl() are thread safe.

resolv.conf.5

Simon Paillard

Explain how to set empty domain

See <http://bugs.debian.org/463575>

capabilities.7

Michael Kerrisk

Add open_by_handle_at(2) under CAP_DAC_READ_SEARCH

inotify.7

Michael Kerrisk [Felix Schulte]

Clarify description of IN_MOVED_FROM and IN_MOVED_TO

man-pages.7

Michael Kerrisk

DESCRIPTION should note versions for new interface features or behavior

udp.7

Benjamin Poirier

Add missing #include directive

Using the UDP_CORK socket option documented in udp.7 requires including <netinet/udp.h>.

ld.so.8

Michael Kerrisk

Rework rpath token expansion text

Michael Kerrisk

Describe \$PLATFORM rpath token

Michael Kerrisk

Describe \$LIB rpath token

Michael Kerrisk

Document LD_BIND_NOT

Michael Kerrisk [Simon Paillard]

Add reference to pthreads(7) in discussion of LD_ASSUME_KERNEL

==== Changes in man-pages-3.54 =====

Released: 2013-09-17, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

ioctl_list.2

Zsbán Ambrus

Document FAT_IOCTL_GET_ATTRIBUTES

The attached patch adds four ioctls from linux/msdos_fs.h to the ioctl_list(2) manpage.

The ioctl FAT_IOCTL_GET_ATTRIBUTES reads FAT attributes of a file a mounted vfat file system. I tested this on Linux 2.6.33, an example script can be found at http://www.perlmonks.com/?node_id=832623

Global changes

Various pages

Michael Kerrisk

Global fix: s/file system/filesystem/

Notwithstanding 24d01c530c5a3f75217543d02bf6712395e5f90c, "filesystem" is the form used by the great majority of man pages

outside the man-pages project and in a number of other sources,
so let's go with that.

Changes to individual pages

access.2

J. Bruce Fields

Fix outdated NFS information

Note that NFS versions since version 3 support an "access" call
so that the client doesn't have to guess permissions or ID
mapping on its own.

(See RFC 1813 sections 1.7 and 3.3.4.)

adjtimex.2

Michael Kerrisk

SEE ALSO: Add adjtimex(8)

clock_getres.2

Michael Kerrisk [Rodrigo Campos]

Note circumstances in which "SMP" note applies.

Michael Kerrisk

Add kernel version for CLOCK_*_CPUTIME_ID
CLOCK_PROCESS_CPUTIME_ID and CLOCK_THREAD_CPUTIME_ID
appeared in 2.6.12.

Michael Kerrisk

Add VERSIONS section

futex.2

Michael Kerrisk

The 'timeout' can be rounded upwards by clock granularity and also overrun

kill.2

Michael Kerrisk

Small improvements to text on historical rules for permissions

nfsservctl.2

Michael Kerrisk

Note commands that were only in Linux 2.4.x and earlier

open.2

Robert Harris

Add mmap(2) to list of calls that fail when given an O_PATH descriptor

Doug Goldstein

Add EINVAL to errors list

EINVAL can be returned by open(2) when the underlying filesystem

doesn't support O_DIRECT. It is documented in the NOTES section but this patch adds it to the list of possible errors.

perf_event_open.2

Vince Weaver

PERF_SAMPLE_BRANCH_STACK updates

This started out as just adding the new perf_event_open features from Linux 3.11 (which was the addition of transactional memory defines for PERF_SAMPLE_BRANCH_STACK samples) but turned into a general cleanup of the PERF_SAMPLE_BRANCH_STACK documentation.

The main clarification is that at least one of the non-privilege values must be set or else perf_event_open() will return an EINVAL error.

Michael Kerrisk

Reorder text describing fields of 'perf_event_header' structure
Place the fields with the shorter descriptions first, to make the information easier to read.

poll.2

Michael Kerrisk

Clarify wording of 'timeout' as a "minimum" interval

sched_setaffinity.2

Michael Kerrisk [Christos Tsopokis]

Clarify that these system calls affect a per-thread attribute

sched_setparam.2

Michael Kerrisk

Clarify that this system call applies to threads (not processes)

sched_setscheduler.2

Michael Kerrisk

Clarify that this system call applies to threads (not processes)

select.2

Michael Kerrisk [G.raud]

Clarify wording of 'timeout' as a "minimum" interval

setfsuid.2

Michael Kerrisk [Oleg Nesterov]

Clarify description of return value

More clearly describe the weirdness in the return value of this system call, and note the problems it creates in BUGS

Michael Kerrisk

Correct header file in SYNOPSIS

Michael Kerrisk

Refer to setfsuid(2) for an explanation of why setfsgid() is obsolete

Michael Kerrisk

Wording improvements

setfsuid.2

Michael Kerrisk [Oleg Nesterov]

Clarify description of return value

More clearly describe the weirdness in the return value of this system call, and note the problems it creates

in BUGS

Michael Kerrisk [Chen Gang]

Clarify historical details and note that setfsuid() is obsolete

Michael Kerrisk

Wording improvements

Michael Kerrisk

Correct header file in SYNOPSIS

sigwaitinfo.2

Michael Kerrisk

Clarify wording of 'timeout' as a "minimum" interval

syscall.2

Johan Erlandsson

Add missing argument in example

Johan Erlandsson

Correct registers for arm/EABI

Registers was off by one.

Reference:

<http://www.arm.linux.org.uk/developer/patches/viewpatch.php?id=3105/4>

See also:

<http://peterdn.com/post/e28098Hello-World!e28099-in-ARM-assembly.aspx>

<https://wiki.debian.org/ArmEabiPort>

http://en.wikipedia.org/wiki/Calling_convention#ARM

wait.2

Michael Kerrisk [Hannes Landeholm]

Add details on the fifth argument provided by raw waitid() system call

See https://bugzilla.kernel.org/show_bug.cgi?id=60744

clock.3

Michael Kerrisk

clock() switched from using times(2) to clock_gettime() in glibc 2.18

drand48_r.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `drand48_r()`, `erand48_r()`, `lrand48_r()`,
`nrand48_r()`, `mrnd48_r()`, `jrand48_r()`, `srnd48_r()`, `seed48_r()`,
and `lcong48_r()` are thread safe.

fma.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `fma()`, `fmaf()` and `fmal()` are thread safe.

fmax.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `fmax()`, `fmaxf()` and `fmaxl()` are thread safe.

fmin.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `fmin()`, `fminf()` and `fminl()` are thread safe.

fpclassify.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `fpclassify()`, `isfinite()`, `isnormal()`, `isnan()`, and
`isinf()` are thread safe.

frexp.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `frexp()`, `frexpf()` and `frexpl()` are thread safe.

gethostbyname.3

Michael Kerrisk [Jon Grant]

`gai_strerror()` is the modern replacement for `herror()` and `hstrerror()`

Michael Kerrisk

Update feature test macro requirements for `herror()` and `hstrerror()`

Michael Kerrisk

Add feature test macro requirements for `h_errno`

ilogb.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `ilogb()`, `ilogbf()` and `ilogbl()` are thread safe.

ldexp.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `ldexp()`, `ldexpf()` and `ldexpl()` are thread safe.

lrint.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions lrint(), lrintf(), lrintl(), llrint(), llrintf(),
and llrintl() are thread safe.

lround.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions lround(), lroundf(), lroundl(), llround(),
llroundf() and llroundl() are thread safe.

lseek64.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function lseek64() is thread safe.

mbsinit.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function mbsinit() is thread safe.

nextafter.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions nextafter(), nextafterf(), nextafterl(),
nexttoward(), nexttowardf() and nexttowardl() are thread safe.

posix_memalign.3

Michael Kerrisk [Will Newton]

'errno' is indeterminate after a call to posix_memalign()

Michael Kerrisk [Will Newton]

Clarify wording on "return value" when size==0

printf.3

Christopher Hall

Correctly describe the meaning of a negative precision

The printf(3) manpage says that a negative precision is taken to
be zero, whereas printf(3p) says that a negative precision is
taken as if the precision were omitted. glibc agrees with the
latter (POSIX) specification.

Test code:

```
printf("%f\n",42.0); // "42.000000"  
printf("%. *f\n",0,42.0); // "42"  
printf("%. *f\n",-1,42.0); // "42.000000"
```

This patch corrects the explanation to match what actually happens.

rewinddir.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function rewinddir() is thread safe.

rint.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions nearbyint(), nearbyintf(), nearbyintl(), rint(),
rintf() and rintl() are thread safe.

seekdir.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function seekdir() is
thread safe.

telldir.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function telldir() is thread safe.

wctomb.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function wctomb() is not thread safe.

wavelan.4

Michael Kerrisk [Elie De Brauwer]

This driver disappeared in 2.56.35

dir_colors.5

Michael Kerrisk [Stas]

Add various synonyms

See <http://bugs.debian.org/553477>

Simon Paillard [Stas]

Add keywords SUID, SGID, STICKY, STICKY_OTHER_WRITABLE, OTHER_WRITABLE

See <http://bugs.debian.org/553477>

See ls.c and dircolors.c in coreutils

proc.5

Peter Schiffer

Document /proc/[pid]/io file

Attempt to document fields in the /proc/[pid]/io file, based on
the Documentation/filesystems/proc.txt. The text will probably

need some grammar corrections.

Michael Kerrisk [Marko Myllynen]

/proc/sys/fs/inode-max

went away in Linux 2.4

Also, the 'preshrink' field in /proc/sys/fs/inode-state became a dummy value in Linux 2.4.

See https://bugzilla.kernel.org/show_bug.cgi?id=60836

Michael Kerrisk [A. Costa]

Note block size used by /proc/partitions

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=666972>

Michael Kerrisk

Add rationale on drop_caches and note that it can hurt performance

See also <http://lwn.net/Articles/562211/>

bootparam.7

Michael Kerrisk [Eugen Dedu]

Remove "lilo" entries from SEE ALSO

See <http://bugs.debian.org/604019>

inotify.7

Michael Kerrisk

SEE ALSO: add inotifywait(1) and inotifywatch(1)

ip.7

Simon Paillard

IP_MULTICAST_IF setsockopt recognizes struct mreq (compatibility)

Kernel added compatibility only recently in

3a084ddb4bf299a6e898a9a07c89f3917f0713f7

See: <http://bugs.debian.org/607979>

standards.7

Michael Kerrisk

Add mention of SUSv4-TC1 (POSIX.1-2013)

==== Changes in man-pages-3.55 =====

Released: 2013-12-12, Christchurch

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Apologies if I missed anyone!

Global changes

assert.3

assert_perror.3

rexec.3

rpc.3

Michael Kerrisk [Jon Grant]

Reword a sentence to use more gender-neutral language

Changes to individual pages

execve.2

Michael Kerrisk

'arg...' for interpreter scripts starts with argv[1]

fallocate.2

Christoph Hellwig

Clarify the zeroing behavior

fallocate() zeroes only space that did not previously contain data, but leaves existing data untouched.

futex.2

Rodrigo Campos

Fix link to Rusty's futex example library

When I asked to webmaster@kernel.org, Konstantin Ryabitsev answered that the ".nl." is "an obsolete scheme and really

should be changed to just ftp.kernel.org".

getgroups.2

Michael Kerrisk

Note that NGROUPS_MAX is defined in <limits.h>

Michael Kerrisk

Clarify that sysconf(_SC_NGROUPS_MAX) is a run-time technique

Michael Kerrisk

Document /proc/sys/kernel/ngroups_max

ioctl.2

Michael Kerrisk [KOSAKI Motohiro, David Gibson]

'request' argument is typed as 'unsigned long' in glibc

See https://bugzilla.kernel.org/show_bug.cgi?id=42705

perf_event_open.2

Vince Weaver

Linux 3.12 rdpmc/mmap

It turns out that the perf_event mmap page rdpmc/time setting was broken, dating back to the introduction of the feature. Due to a mistake with a bitfield, two different values mapped to the same feature bit.

A new somewhat backwards compatible interface was introduced in Linux 3.12. A much longer report on the issue can be found here:

<https://lwn.net/Articles/567894/>

Vince Weaver

Linux 3.12 adds PERF_SAMPLE_IDENTIFIER

A new PERF_SAMPLE_IDENTIFIER sample type was added in Linux 3.12.

Vince Weaver

E2BIG documentation

The following documents the E2BIG error return for perf_event_open().

I actually ran into this error the hard way and it took me half a day to figure out why my ->size value was changing.

Vince Weaver

Linux 3.12 adds PERF_EVENT_IOC_ID

A new perf_event related ioctl, PERF_EVENT_IOC_ID, was added in Linux 3.12.

Vince Weaver

PERF_COUNT_SW_DUMMY support

Support for the PERF_COUNT_SW_DUMMY event type was added in Linux 3.12.

Vince Weaver [Andreas Sandberg]

PERF_EVENT_IOC_PERIOD update

The PERF_EVENT_IOC_PERIOD ioctl was broken until 2.6.36, and it turns out that the ARM architecture has some differing behavior too.

pipe.2

Trevor Bramwell

Fix error in example program

poll.2

Michael Kerrisk [Paolo Bonzini]

Clarify meaning of events==0

events==0 does not mean that revents is always returned as zero. The "output only" events (POLLHUP, POLLERR, POLLNVAL) can still be returned.

See https://bugzilla.kernel.org/show_bug.cgi?id=61911

readlink.2

Michael Kerrisk [Yuanhang Zheng]

Fix typo in error message in example program

recv.2

Michael Kerrisk

Remove out-of-date statement that UNIX domain does not support MSG_TRUNC
Should have removed that sentence as part of
commit a25601b48b822eb1882ae336574b8d062a17e564

sched_get_priority_max.2

Michael Kerrisk

Add SCHED_IDLE to discussion

send.2

Michael Kerrisk

RETURN VALUE: these calls return number of bytes (not characters) sent

setreuid.2

Michael Kerrisk

Small clarification to description of when saved

set-user-ID is set

sigpending.2

Michael Kerrisk

Note treatment of signals that are blocked *and* ignored

stat.2

Michael Kerrisk

Note filesystem support for nanosecond timestamps

Add some detail on which native filesystems do and don't support nanosecond timestamps.

Michael Kerrisk

Cosmetic reworking of timestamp discussion in NOTES

Michael Kerrisk [Yang Yang]

Update discussion of nanosecond timestamps

The existing text describes the timestamp fields as 'time_t' and delegates discussion of nanosecond timestamps under NOTES. Nanosecond timestamps have been around for a while now, and are in POSIX.1-2008, so reverse the orientation of the discussion, putting the nanosecond fields into DESCRIPTION and detailing the historical situation under NOTES.

symlink.2

Michael Kerrisk

Further fine tuning of argument names

Follow-up

to f2ae6dde0c68448bec986d12fe32268a2c98bfd9

See https://sourceware.org/bugzilla/show_bug.cgi?id=16073

Michael Kerrisk [Fabrice Bauzac]

Give arguments of symlink() more meaningful names

adjtime.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function adjtime() is thread safe.

alloca.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function alloca() is thread safe.

asinh.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions asinh(), asinhf() and asinhl() are thread safe.

atan.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions atan(), atanf() and atanl() are thread safe.

atof.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions
The function atof() is thread safe with exceptions.

atoi.3

Peng Haitao

ATTRIBUTES: Note functions that
are thread safe with exceptions
The functions atoi(), atol() and atoll() are thread safe with
exceptions.

bcmp.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function bcmp() is thread safe.

bcopy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function bcopy() is thread safe.

bsd_signal.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function bsd_signal() is thread safe.

bzero.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function bzero() is thread safe.

cbt.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions cbrt(), cbrtf() and cbrtl() are thread safe.

copysign.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions copysign(), copysignf() and copysignl() are thread
safe.

cos.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions `cos()`, `cosf()` and `cosl()` are thread safe.

`cproj.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions `cproj()`, `cprojf()` and `cprojl()` are thread safe.

`creal.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions `creal()`, `crealf()` and `creall()` are thread safe.

`daemon.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function `daemon()` is thread safe.

`des_crypt.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions `ecb_crypt()`, `cbc_crypt()` and `des_setparity()` are thread safe.

`difftime.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function `difftime()` is thread safe.

`dysize.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function `dysize()`
is thread safe.

`erf.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions `erf()`, `erff()` and `erfl()` are thread safe.

`erfc.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe
The functions `erfc()`, `erfcf()` and `erfcl()` are thread safe.

`euidaccess.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `uidaccess()` and `eaccess()` are thread safe.

expm1.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `expm1()`, `expm1f()` and `expm1l()` are thread safe.

fexecve.3

Michael Kerrisk

POSIX.1-2008 specifies `fexecve()`

Michael Kerrisk

Explain the use and rationale of `fexecve()`

ftime.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `ftime()` is thread safe.

ftok.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function

`ftok()` is thread safe.

ftw.3

Michael Kerrisk

`nftw()` visits directories with `FTW_D` if `FTW_DEPTH` was not specified

Michael Kerrisk

Explain probable cause of `FTW_NS`

futimes.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `futimes()` and `lutimes()` are thread safe.

getaddrinfo.3

Michael Kerrisk

Explain one use case for `AI_ADDRCONFIG`

Michael Kerrisk

Highlight difference in `ai_flags` when `hints==NULL`

NOTES already described how `glibc` differs from `POSIX`.

Add a pointer to that text from the point in `DESCRIPTION`

where `hints==NULL` is discussed.

kcmp.3

Shawn Landden

Reword slightly awkward section

malloc.3

Greg Price

Scale back promises of alignment

It's not true that the return value is suitably aligned for "any variable"; for example, it's unsuitable for a variable like

```
float *x __attribute__((__vector_size__(32)));
```

which requires 32-byte alignment. Types like this are defined in `<avxintrin.h>`, and with 16-byte alignment in `<emmintrin.h>` and `<xmmintrin.h>`, so the application programmer need not even know that a `vector_size` attribute has been applied.

On an x86 architecture, a program that loads from or stores to a pointer with this type derived from `malloc` can crash because GCC generates an aligned load/store, like `MOVDQA`.

The C99 standard (TC3, as of N1256) does say the return value is suitably aligned for "any type of object". The C11 standard (as of N1570) revises this to any type with "fundamental alignment", which means an alignment "supported by the implementation in all contexts", which I suppose tautologically includes aligning `malloc/realloc` return values.

The actual behavior of current glibc `malloc` is to align to the greater of $2 * \text{sizeof}(\text{size_t})$ and `__alignof__(long double)`, which may be one bit greater than this commit promises.

mq_receive.3

Michael Kerrisk [janh]

`msg_len` must be greater than *or equal to* `mq_msgsize`

See https://bugzilla.kernel.org/show_bug.cgi?id=64571

setenv.3

Michael Kerrisk

Clarify that `setenv()` returns success in the `overwrite==0` case

sigsetops.3

Michael Kerrisk [Robert P. J. Day]

Add 'const' to `sigisemtpyset()`, `sigorset()`, `sigandset()` declarations

Michael Kerrisk

Rework text describing `sigisemtpyset()`, `sigorset()`, and `sigandset()`

statvfs.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `statvfs()` and `fstatvfs()` are thread safe.

stdarg.3

Peng Haitao

ATTRIBUTES: Note macros that are thread-safe

The macros `va_start()`, `va_arg()`, `va_end()` and `va_copy()` are thread safe.

termios.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `tcgetattr()`, `tcsetattr()`, `tcsendbreak()`, `tcdrain()`, `tcf flush()`, `tcf low()`, `cfmakeraw()`, `cfgetispeed()`, `cfgetospeed()`, `cfsetispeed()`, `cfsetospeed()` and `cfsetspeed()` are thread safe.

ungetwc.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `ungetwc()` is thread safe.

unlockpt.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `unlockpt()` is thread safe.

usleep.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `usleep()` is thread safe.

wcpcpy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wcpcpy()` is thread safe.

wscasecmp.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `wscasecmp()` is thread safe with exceptions.

wscat.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wscat()` is thread safe.

wcschr.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wcschr()` is thread safe.

`wscmp.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wscmp()` is thread safe.

`wscpy.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wscpy()` is thread safe.

`wscspn.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wscspn()` is thread safe.

`wcslen.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wcslen()` is thread safe.

`wscnsecmp.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `wscnsecmp()` is thread safe with exceptions.

`wscncat.3`

Peng Haitao

ATTRIBUTES:

Note function that is thread-safe

The function `wscncat()` is thread safe.

`wscncmp.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wscncmp()` is thread safe.

`wscncpy.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wscncpy()` is thread safe.

`wcsnlen.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wcsnlen()` is thread safe.

wcspbrk.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function wcspbrk() is thread safe.

wcsrchr.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function wcsrchr() is thread safe.

wcsspn.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function wcsspn() is thread safe.

wcsstr.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function wcsstr() is
thread safe.

wcstoimax.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions wcstoimax() and wctoumax() are thread safe with
exceptions.

wcstok.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function wcstok() is thread safe.

wcswidth.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function wcswidth() is thread safe with exceptions.

wctrans.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function wctrans() is thread safe with exceptions.

wctype.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function wctype() is thread safe with exceptions.

wcwidth.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `wcwidth()` is thread safe with exceptions.

wmemchr.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wmemchr()` is thread safe.

wmemcmp.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wmemcmp()` is thread safe.

wmemcpy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wmemcpy()` is thread safe.

wmemmove.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wmemmove()` is thread safe.

wmemset.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `wmemset()` is thread safe.

tty_ioctl.4

Michael Kerrisk [Liu Jiaming]

Note that 'arg' should be 0 in the usual case when using `TIOCSCTTY`

Michael Kerrisk

Rework text on root to discuss just in terms of capabilities

proc.5

Michael Kerrisk

Document `/proc/sys/kernel/ngroups_max`

capabilities.7

Michael Kerrisk

Fix 2 version

numbers under "Effect of user ID changes on capabilities"

feature_test_macros.7

Michael Kerrisk

Add `_ISOC11_SOURCE` to example program

tcp.7

Michael Kerrisk

Fix (nontrivial) wordo in discussion of MSG_TRUNC
s/MSG_PEEK/MSG_TRUNC/

ld.so.8

Michael Kerrisk [Alfred Agrell]

Fix crufty wording in one sentence

===== Changes in man-pages-3.56 =====

Released: 2014-01-11, Christchurch

In memory of Doris Church (1939-2013)

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

fgetc.3

gets.3

David Malcolm

Split gets(3) to isolate unsafe gets(3) to a page on its own

Currently man3/gets.3 documents various safe I/O functions, along with the toxic "gets" function.

At the risk of being melodramatic, this strikes me as akin to storing rat poison in a food cabinet, in the same style of packaging as the food, but with a post-it note on it saying "see warnings below".

I think such "never use this" functions should be quarantined into their own manpages, rather than listing them alongside sane functions.

The attached patch does this for "gets", moving the documentation of the good functions from man3/gets.3 into man3/fgetc.3, updating the SO links in the relevant functions to point at the latter.

It then rewrites man3/gets.3 to spell out that "gets" is toxic and should never be used (with a link to CWE-242 for good measure).

Michael Kerrisk [Andre Majorel]

Tweaks to David Malcolm's patch

vdso.7

Mike Frysingher

New page documenting the vDSO mapped into each process by the kernel

Newly documented interfaces in existing pages

reboot.2

Elie De Brauwer

Document LINUX_REBOOT_SW_SUSPEND

New and changed links

fgetc.3

getc.3

getchar.3

ungetc.3

Michael Kerrisk

Adjust links to gets(3) to point to fgetc(3)

Global changes

Various pages

Michael Kerrisk

Global fix of "NULL pointer"

Change "NULL pointer" to "NULL" or null pointer".

POSIX uses the term "null pointer", not "NULL pointer".

Various pages

Michael Kerrisk

Stylistic changes to code example

For ease of reading, don't embed assignments inside if().

Various pages

Michael Kerrisk

Replace uses of

"i.e.," in main text with "that is" or similar

Usual man-pages style is to use "i.e." only within
parenthetical expressions.

Various pages

Michael Kerrisk

Replace uses of "e.g." in main text with "for example" or similar

Usual man-pages style is to use "e.g." only within
parenthetical expressions.

Various pages

Michael Kerrisk

Add "Program source" subheading under EXAMPLE

Various pages

Michael Kerrisk

Add "static" to global variables and functions in example program

Changes to individual pages

clock_getres.2

Michael Kerrisk [Nadav Har'El]

Improve description of CLOCK_PROCESS_CPUTIME_ID

See https://bugzilla.kernel.org/show_bug.cgi?id=67291

close.2

Michael Kerrisk [P?draig Brady]

Note that errors from close() should be used only for diagnosis

In particular, retrying after EINTR is a bad idea.

See <http://austingroupbugs.net/view.php?id=529>

See <http://thread.gmane.org/gmane.comp.lib.glibc.alpha/37702>

Subject: [RFC][BZ #14627] Make linux close errno to EINPROGRESS
when interrupted in signal.

execve.2

Michael Kerrisk [Marco Dione]

Add further cases to EFAULT error

See https://sourceware.org/bugzilla/show_bug.cgi?id=16402

perf_event_open.2

Vince Weaver [Sudhanshu Goswami]

Clarify issues with the disabled bit

Clarify the perf_event_open behavior with respect to the disabled
bit and creating event groups.

Vince Weaver [Sudhanshu Goswami]

Clarify issues with the exclusive bit

Warn that using the perf_event_open "exclusive" bit, while
it might seem like a good idea, might lead to all 0 results
in some common usage cases.

reboot.2

Elie De Brauer

Mention RB_POWER_OFF

The manpage did not mention RB_POWER_OFF which

is the glibc

symbolic name for LINUX_REBOOT_CMD_POWER_OFF.

```
$ cd /usr/include
```

```
$ cat x86_64-linux-gnu/sys/reboot.h | grep POWER_OFF
```

```
define RB_POWER_OFF    0x4321fedc
```

Elie De Brauwier

Add "Linux" to kernel version numbers

Michael Kerrisk

Add RB_SW_SUSPEND synonym

Michael Kerrisk

Add RB_KEXEC synonym

setpgid.2

Michael Kerrisk [Joseph S. Myers]

BSD getpgrp() and setpgrp() go away in glibc 2.19

socket.2

Michael Kerrisk [Dongsheng Song]

Remove crufty statement that AF_INET does not support SOCK_SEQPACKET

Linux AF_INET supports SOCK_SEQPACKET via SCTP.

syscall.2

Mike Frysinger

Fix ia64 registers

The original list of registers was created by confusing strace source code--this is for parsing legacy 32-bit code (which is dead and no one cares). Update the list to reflect native ia64 syscall interface.

syscall.2

syscalls.2

getauxval.3

Mike Frysinger

Add references to new vdso(7) page

utimensat.2

Michael Kerrisk

Small wording improvement for times!=NULL case

dlopen.3

Michael Kerrisk [Mike Frysinger]

Update remarks on cast needed when assigning dlsym() return value

POSIX.1-2013 eases life when casting the dlsym() return value to a function pointer

Michael Kerrisk [Stephen Kell]

Fix description of dli_name

See https://sourceware.org/bugzilla/show_bug.cgi?id=16262

getline.3

Michael Kerrisk [Luke Hutchison]

Correct description of how '*n' is used when '*lineptr' == NULL

See https://sourceware.org/bugzilla/show_bug.cgi?id=5468

Michael Kerrisk

Remove SEE ALSO reference to unsafe gets(3)

mcheck.3

Simon Paillard [Raphael Geissert]

typo in compiler flag

See <http://bugs.debian.org/732464>

mkstemp.3

Michael Kerrisk [Janne Blomqvist]

Better

describe 'flags' that can be specified for mkostemp()

printf.3

Michael Kerrisk [Arif Zaman]

Fix memory leak in snprintf() example

See <http://stackoverflow.com/questions/19933479/snprintf-man-page-example-memory-leak>

pthread_kill.3

Michael Kerrisk [Mathieu Desnoyers]

POSIX.1-2008 removes ESRCH

POSIX.1-2001 mistakenly documented an ESRCH error, and

POSIX.1-2008 removes this error. Glibc does return

this error in cases where it can determine that a thread ID

is invalid, but equally, the use of an invalid thread ID

can cause a segmentation fault.

puts.3

Michael Kerrisk

SEE ALSO: replace reference to gets(3) with fgets(3)

scanf.3

Michael Kerrisk [Ondrej Bilka]

Improve discussion of obsolete 'a' dynamic allocation modifier

setjmp.3

Michael Kerrisk [Joseph S. Myers]

BSD setjmp() semantics go away in glibc 2.19

sigpause.3

Michael Kerrisk [Joseph
S. Myers]

BSD sigpause() goes away in glibc 2.19

Michael Kerrisk

Correct feature text macro requirements

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sigpause() is thread safe.

sigqueue.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sigqueue() is thread safe.

sigwait.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sigwait() is thread safe.

sin.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions sin(), sinf() and sinl() are thread safe.

sincos.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions sincos(), sincosf() and sincosl() are thread safe.

string.3

Moritz 'Morty' Strübe

Add short description of the functions

It is helpful to have a short description about what the different functions

in string.h do.

Michael Kerrisk

Fixes and enhancements to Moritz Strübe's patch

strptime.3

Michael Kerrisk [Mathieu Malaterre, Simon Paillard]

Add number ranges to comments in 'tm' structure

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=729570>

Michael Kerrisk

Point to ctime(3) for more details on 'tm' structure

Michael Kerrisk

Some rewording and reorganization

strsep.3

Michael Kerrisk

Clarify description

The use of "symbols" in the existing description is confusing;

it's "bytes". Other fixes as well.

strspn.3

Michael Kerrisk [Mathieu Malaterre]

Improve description in NAME

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=723659>

strstr.3

Michael Kerrisk

Clarify RETURN VALUE: s/substring/located substring/

sysv_signal.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sysv_signal() is thread safe.

tan.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions tan(), tanf() and tanl() are thread safe.

tanh.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions tanh(), tanhf() and tanhl() are thread safe.

toascii.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function toascii() is thread safe.

toupper.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions toupper() and tolower() are thread safe with exceptions.

towctrans.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function towctrans() is thread safe.

towlower.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function tolower() is thread safe with exceptions.

towupper.3

Peng Haitao

ATTRIBUTES: Note function that is
thread safe with exceptions

The function towupper() is thread safe with exceptions.

ualarm.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function ualarm() is thread safe.

wcpncpy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function wcpncpy() is thread safe.

proc.5

Michael Kerrisk [Sworddragon2]

Fix formula for CommitLimit under /proc/meminfo

See https://bugzilla.kernel.org/show_bug.cgi?id=60991

credentials.7

Michael Kerrisk

List APIs that operate on process groups

Michael Kerrisk

Add details on controlling terminal and foreground/background jobs

feature_test_macros.7

Michael Kerrisk

Document _DEFAULT_SOURCE

Michael Kerrisk [Joseph S. Myers]

From glibc 2.19, _BSD_SOURCE no longer causes __FAVOR_BSD

Starting with glibc 2.19, _BSD_SOURCE no longer causes BSD

definitions to be favored in cases

where standards conflict.

libc.7

Mike Frysinger

SEE ALSO: add various entries

man-pages.7

Michael Kerrisk [Mike Frysinger]

Add STYLE GUIDE section

Incorporate some of the existing material in the page
into the STYLE GUIDE, and add a lot more material, mainly
drawn from the "Global changes" sections in the release
changelogs.

Michael Kerrisk

Add historical note on reason for use of American spelling

Michael Kerrisk [Mike Frysinger]

Various improvements to style guide

packet.7

Willem de Bruijn [Daniel Borkmann]

Document fanout, ring, and auxiliary options

This patch adds descriptions of the common packet socket options

PACKET_AUXDATA, PACKET_FANOUT, PACKET_RX_RING, PACKET_STATISTICS,
PACKET_TX_RING

and the ring-specific options

PACKET_LOSS, PACKET_RESERVE, PACKET_TIMESTAMP, PACKET_VERSION

Michael Kerrisk

Add kernel version numbers for PACKET_VERSION and PACKET_TIMESTAMP

ld.so.8

Michael Kerrisk [Matthias Klose]

Default output file for D_DEBUG is stderr not stdout

See https://sourceware.org/bugzilla/show_bug.cgi?id=6874

===== Changes in man-pages-3.57 =====

Released: 2014-01-24, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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<socketpair@gmail.com>

Apologies if I missed anyone!

Newly documented interfaces in existing pages

msgop.2

Michael Kerrisk
Document MSG_COPY

open.2

Michael Kerrisk, Andy Lutomirski
Document O_TMPFILE
O_TMPFILE is new in Linux 3.11

perf_event_open.2

Vince Weaver [Andi Kleen]
PERF_SAMPLE_TRANSACTION support in Linux 3.13
The following patch adds descriptions of the new perf_event_open.2
PERF_SAMPLE_TRANSACTION sample type as added in Linux 3.13.

The descriptions
are based on information provided by Andi Kleen,
both in the e-mail

[PATCH 1/6] perf, core: Add generic transaction flags v5

sent to the linux-kernel list as well as an e-mail

[PATCH] Document transaction flags in perf_event_open manpage

sent to the linux-man list.

The implementation is based heavily on the Intel Haswell
processor. Documentation can be found at this page:
<http://software.intel.com/en-us/blogs/2013/05/03/intelr-transactional-synchronization-extensions-intelr-tsx->

profiling-with-linux-0

as well as in section 18.11.5.1 of volume 3 of the
Intel 64 and IA-32 Architecture Software Developer's Manual.

ptrace.2

Andrey Vagin

Add description for PTRACE_PEEKSIGINFO

Retrieve signals without removing them from a queue.

Andrey Vagin

Add description for PTRACE_GETSIGMASK and PTRACE_SETSIGMASK

These two

commands allow to examine and change mask of blocked
signals.

socket.7

Eliezer Tamir

Add description for SO_BUSY_POLL

Add description for the SO_BUSY_POLL socket option.

tcp.7

Michael Kerrisk [Jerry Chu]

Document TCP_USER_TIMEOUT

Text slightly adapted from Jerry Chu's (excellent) commit
message (commit dca43c75e7e545694a9dd6288553f55c53e2a3a3).

Michael Kerrisk

Document TCP_CONGESTION

Global changes

Various pages

Michael Kerrisk

Reword to avoid use of "etc."

Various pages

Peng Haitao [Andre Majorel]

Make wording around thread-safety and setlocale() more precise

getdate.3

strptime.3

locale.5

Michael Kerrisk

Replace "weekday" with less ambiguous language

Notwithstanding POSIX's use of the term "weekday", in everyday
English, "weekday" is commonly understood to mean a day in the
set [Monday..Friday] (vs one of the

"weekend" days).

Changes to individual pages

epoll_wait.2

Michael Kerrisk [Jonas Jonsson]

Clarify wording of EINTR error

See https://bugzilla.kernel.org/show_bug.cgi?id=66571

faccessat.2

Michael Kerrisk

Note that the system call takes only three arguments

fallocate.2

Michael Kerrisk

Note filesystems that support FALLOC_FL_PUNCH_HOLE operation

fcntl.2

Michael Kerrisk

BUGS: The O_SYNC and O_DSYNC flags are not modifiable using F_SETFL

Michael Kerrisk

Add subsections under BUGS

There's several bugs listed. It's helpful to mark them separately.

Michael Kerrisk

POSIX.1 specifies F_SETOWN and F_GETOWN for sockets/SIGURG

getrlimit.2

Michael Kerrisk []

Note that rlim_cur can be set lower than current resource consumption

getsockopt.2

Michael Kerrisk

SEE ALSO: add ip(7) and udp(7)

keyctl.2

Michael Kerrisk

SEE ALSO: mention Documentation/security/keys.txt

linkat.2

Michael Kerrisk

Add ENOENT for O_TMPFILE created with O_EXCL

Michael Kerrisk

ERRORS: Add EINVAL

lseek.2

Michael Kerrisk

Note which filesystems support SEEK_HOLE/SEEK_DATA

msgop.2

Michael Kerrisk

Note that MSG_EXCEPT is Linux-specific

open.2

Michael Kerrisk

Update CONFORMING TO

Add POSIX.1-2008. Add mention of O_TMPFILE.

Update text on various flags that were added in POSIX.1-2008, and whose definitions can, since glibc 2.12, be obtained by suitably defining _POSIX_C_SOURCE or _XOPEN_SOURCE

Michael Kerrisk

Add pointer in description to BUGS, for O_ASYNC limitation

Michael Kerrisk

Remove crufty duplicate text on modifying file status flags

ptrace.2

Michael Kerrisk

Add details to descriptions of PTRACE_GETSIGMASK and PTRACE_SETSIGMASK

select.2

Michael Kerrisk [Marc Lehmann]

RETURN VALUE: Fix discussion of treatment of file descriptor sets

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=574370>

syscalls.2

Michael Kerrisk

Remove madvise1() from main list

madvise1() is one of the system calls that was never implemented, and listed toward the bottom of the page.

timer_create.2

Michael Kerrisk

Add pointer to proc(5) for info on /proc/[pid]/timers

unlinkat.2

Michael Kerrisk [Mike Fryssinger:]

ERRORS: Add EISDIR

See https://bugzilla.kernel.org/show_bug.cgi?id=29702

ferror.3

Michael Kerrisk

clearerr(), feof(), and ferror() are also POSIX-conformant

Michael Kerrisk [Reuben Thomas]

CONFORMING TO: add fileno()

gets.3

Ian Abbott

SEE ALSO: add fgets(3)

mq_receive.3

mq_send.3

Michael Kerrisk [Simone Piccardi]

SYNOPSIS: s/unsigned/unsigned int/

printf.3

Michael Kerrisk

Small reorganization of text in EXAMPLE

rand.3

Michael Kerrisk

s/unsigned/unsigned int/ in example

stpcpy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function stpcpy() is thread safe.

stpncpy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function stpncpy() is thread safe.

strcat.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions strcat() and strncat() are thread safe.

strchr.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions strchr(), strchr() and strchrnul() are thread safe.

strcmp.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions strcmp() and strncmp() are thread safe.

strftime.3

Brandon Edens

Change "week day" to "day of week"

See https://bugzilla.kernel.org/show_bug.cgi?id=68861

strstr.3

Peng Haitao

ATTRIBUTES: Note function that
is thread safe with exceptions

The function strstr() is thread safe.

The function strcasestr() is thread safe with exceptions.

strtod.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions strtod(), strtodf() and strtold() are thread safe
with exceptions.

strtoimax.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions strtoimax() and strtoumax() are thread safe with
exceptions.

strtol.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions strtol(), strtoll() and strtoul() are thread safe
with exceptions.

tcgetpgrp.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions tcgetpgrp() and tcsetpgrp() are thread safe.

tcgetsid.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function tcgetsid() is thread safe.

core.5

Bernhard Walle

Mention that %E exists since Linux 3.0

'%E' in the 'core_pattern' has been introduced in kernel commit
57cc083ad9e1bfeeb4a0ee831e7bb008c8865bf0 which was included in
version 3.0. Add that information to the manual page.

filesystems.5

Michael Kerrisk [Axel Beckert]

Add reference to proc(5) for more details on /proc/filesystems

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=735590>

locale.5

Michael Kerrisk

SEE ALSO: add locale(7)

proc.5

Michael Kerrisk

Document /proc/[pid]/timers

Michael Kerrisk

Update discussion of wchan

Remove crufty reference to /etc/psdatabase in /proc/PID/stat.

Add /proc/PID/wchan.

See <https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/737452>

environ.7

Michael Kerrisk [Gioele Barabucci]

Correct reference to locale(7) (not locale(5))

locale(7) is the right place for details of the LC_* environment variables.

See <http://bugs.debian.org/638186>

Michael Kerrisk

Improve references for discussion of locale environment variables

Michael Kerrisk

SEE ALSO: add catopen(3)

Michael Kerrisk

SEE ALSO: add locale(5)

man-pages.7

Michael Kerrisk

Prefer "usable" over "useable"

netdevice.7

Tilman Schmidt

Document SIOCGIFCONF case ifc_req==NULL

Add the missing description of the possibility to call SIOCGIFCONF with ifc_req==NULL to determine the needed buffer size, as described in

<http://lkml.indiana.edu/hypermail/linux/kernel/0110.1/0506.html>

and verified against source files net/core/dev_ioctl.c and

net/ipv4/devinet.c in the current kernel git tree.

This functionality has been present since the beginning of the 2.6 series. It's about time

it gets documented.

While I'm at it, also generally clarify the section on SIOCGIFCONF.

standards.7

Michael Kerrisk

Enhance description of V7

Michael Kerrisk

Add C11

tcp.7

Michael Kerrisk

Describe format of tcp_*_congestion_control /proc files

Describe format of tcp_allowed_congestion_control and

tcp_available_congestion_control.

==== Changes in man-pages-3.58 =====

Released: 2014-02-11, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

pipe.2

Michael Kerrisk

Document the pipe2() O_DIRECT flag added in Linux 3.4

packet.7

Daniel Borkmann

Document PACKET_QDISC_BYPASS

New in Linux 3.14.

Global changes

Various pages

Simon Paillard

Formatting fix: add space between function and () if BR or IR

Detected through the regex:

```
git grep -P '\.(BR|IR) [\w]*\([\d]*\)$'
```

Various pages

Simon Paillard

Formatting fix: add space between word and punctuation if BR or IR

Detected through the regex:

```
git grep -P '\.(BR|IR) [^ ]*[,.\.]$'
```

Could probably be extended to match more cases and fix in perl.

Various pages

Michael Kerrisk

Use Oxford comma

gettid.2

restart_syscall.2

passwd.5

socket.7

Michael Kerrisk

Fix order of SEE ALSO entries

Changes to individual pages

epoll_wait.2

Michael Kerrisk [Network Nut]

Remove word "minimum" from the description of 'timeout'

epoll_wait.2

poll.2

select.2

Michael Kerrisk

Go into more detail on timeout and when call will cease blocking

getxattr.2

listxattr.2

removexattr.2

setxattr.2

Michael Kerrisk [Fabrice Bauzac]

Correct header file is <sys/xattr.h> (not <xattr/xattr.h>)

See https://bugzilla.kernel.org/show_bug.cgi?id=70141

msgctl.2

Cyril Hrubis

Add note about ignored arg to IPC_RMID

prctl.2

Michael Kerrisk []

PR_SET_PDEATHSIG value is preserved across execve(2)

recv.2

Michael Kerrisk

Rework and reorganize the
text in various parts of the page.

Isolate details specific to recv() vs recvfrom() vs recvmsg()

Place details specific to each system call under a
separate subheading.

Rework discussion of 'src_addr' and 'addrlen' for recvfrom()

Add description of 'buf' and 'len' in recvfrom() section

'addrlen' should be 0 (*not* NULL) when 'src_addr' is NULL

Improve text describing recvfrom() call that is equivalent to recv()

Michael Kerrisk []

Describe the various cases where the return value can be 0

shmctl.2

Michael Kerrisk

Note that 'buf' is ignored for IPC_RMID

symlinkat.2

Michael Kerrisk

Make argument names consistent with symlink(2) page

isalpha.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions isalnum(), isalpha(), isascii(), isblank(),

iscntrl(), isdigit(), isgraph(), islower(), isprint(),

ispunct(), isspace(),

isupper() and isxdigit() are thread safe.

isatty.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function isatty() is thread safe.

isgreater.3

Peng Haitao

ATTRIBUTES: Note macros that are thread-safe

The macros isgreater(), isgreaterequal(), isless(),
islessequal(), islessgreater() and isunordered() are thread safe.

iswalnum.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function iswalnum() is thread safe with exceptions.

iswalpha.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function iswalpha() is thread safe with exceptions.

iswblank.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function iswblank() is thread safe with exceptions.

iswcntrl.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function iswcntrl() is thread safe with exceptions.

lockf.3

Michael Kerrisk [Simone Piccardi]

Fix incorrect argument mentioned under EINVAL error

pthread_kill.3

Michael Kerrisk

Add feature test macro requirements

pthread_sigmask.3

Michael Kerrisk

Add feature test macro requirements

strtoul.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions strtoul(), strtoull() and strtouq() are thread safe with exceptions.

nscd.conf.5

Peter Schiffer

Add note about default values

proc.5

Michael Kerrisk

SEE ALSO: Add some further kernel Documentation/sysctl files

man-pages.7

Michael Kerrisk

ATTRIBUTES sections come after VERSIONS

Peng Haitao has consistently ordered the ATTRIBUTES after VERSIONS, so adjust the text in man-pages.7

vdso.7

Michael Kerrisk

Add words "virtual dynamic shared object" in DESCRIPTION

=====

Changes in man-pages-3.59 =====

Released: 2014-02-16, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Weizhou Pan <cs.wzpan@gmail.com>

Apologies if I missed anyone!

Global changes

Various pages

Peter Schiffer, Michael Kerrisk [Weizhou Pan]

Convert pages containing non-ASCII in source code comments to use UTF-8

Done using a slightly modified version of Peter Schiffer's convert_to_utf_8.sh script. The script was modified so as *not* a "coding:" marker to the groff source. For now, we'll only put that marker on pages that contain non-ASCII characters in the rendered text.

See https://bugzilla.kernel.org/show_bug.cgi?id=60807

- armscii-8.7
- cp1251.7
- iso_8859-1.7
- iso_8859-10.7
- iso_8859-11.7
- iso_8859-13.7
- iso_8859-14.7
- iso_8859-15.7
- iso_8859-16.7
- iso_8859-2.7
- iso_8859-3.7
- iso_8859-4.7
- iso_8859-5.7
- iso_8859-6.7
- iso_8859-7.7
- iso_8859-8.7
- iso_8859-9.7
- koi8-r.7
- koi8-u.7

Peter Schiffer, Michael Kerrisk [Weizhou Pan]

Convert pages containing non-ASCII to use UTF-8

Done using Peter Schiffer's convert_to_utf_8.sh script.

These pages containing non-ASCII in the rendered characters, and so the script inserts a "coding:" marker into the groff source.

See https://bugzilla.kernel.org/show_bug.cgi?id=60807

==== Changes in man-pages-3.60 =====

Released: 2014-02-18, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Kalle Olavi Niemitalo <kon@iki.fi>
Michael Kerrisk <mtk.manpages@gmail.com>
Simon Paillard <spillard@debian.org>

Apologies if I missed anyone!

Changes to individual pages

sigvec.3

Michael Kerrisk [Kalle Olavi Niemitalo]

Fix error in code snippet

s/sigpause/sigmask/

armscii-8.7

cp1251.7

iso_8859-1.7

iso_8859-10.7

iso_8859-11.7

iso_8859-13.7

iso_8859-14.7

iso_8859-15.7

iso_8859-16.7

iso_8859-2.7

iso_8859-3.7

iso_8859-4.7

iso_8859-5.7

iso_8859-6.7

iso_8859-7.7

iso_8859-8.7

iso_8859-9.7

koi8-u.7

Michael Kerrisk [Simon Paillard]

Remove comment that glyphs in column 4 may not display correctly

With the conversion to UTF-8, the glyphs in column 4 of the tables in these pages will display regardless of whether the environment is configured for the corresponding character set.

iso_8859-11.7

iso_8859-13.7

D. Barbier [Simon Paillard]

Fix encoding mistakes

in 5f7f4042b8848127d852c6fa7c02e31ccfaeae5

Fixed via:

```
for f in iso_8859-11 iso_8859-13; do
  cp man7/$f.7 $f
  iconv -f utf8 -t latin1 $f | iconv -f iso-${f#iso_} -t utf8 > man7/$f.7
done
```

==== Changes in man-pages-3.61 =====

Released: 2014-02-26, Munich

Contributors

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Simon Paillard <spaillard@debian.org>
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Xiawei
Chen <chenxiawei@gmail.com>

Apologies if I missed anyone!

New and rewritten pages

A note from Christoph Hellwig prompted me to perform a task that has been queued for a while: merging the text of the man pages for the `*at(23)` ("directory file descriptor") APIs into their corresponding traditional pages. When the `*at(23)` pages were originally written (mostly in 2006), the APIs were not part of POSIX and (in most cases) were not available on other systems. So, it made some sense to wall

them off into their own separate pages. Eight years later, with the APIs now all in POSIX (except scandirat()), it is much more sensible to document the newer APIs alongside their traditional counterparts, so that the newer APIs are not "hidden", and the reader can more easily see the differences between the APIs.

Thus, the text of 14 pairs of pages has been merged, and the "merged from" pages have been converted to links to the "merged to" pages.

Along

the way, a few other fixes were made to the pages, as noted below.

One page that did not undergo such a change was utimensat(2), which is different enough from utime(2) that it warrants a separate page.

Unlike the other *at() pages, the utimensat(2) page was also already self-contained, rather than defining itself in terms of differences from utime(2) as the other *at() pages did.

access.2

Michael Kerrisk

Merge text from faccessat(2)

Michael Kerrisk

Remove faccessat() race warning

That point is already covered in existing text in this page.

Michael Kerrisk

access() also conforms to POSIX.1-2008

chmod.2

Michael Kerrisk

Merge text from fchmodat(2)

Michael Kerrisk

Use argument name 'pathname' throughout page

(Some APIs were using 'path' while others used 'pathname')

Michael Kerrisk

CONFORMING TO: chmod() and fchmod() are also in POSIX.1-2008

chown.2

Michael Kerrisk

Merge text

of fchownat(2)

Michael Kerrisk

AT_EMPTY_PATH is Linux-specific and requires _GNU_SOURCE

Michael Kerrisk

Use argument name 'pathname' throughout page

(Some APIs were using 'path' while others used 'pathname')

Michael Kerrisk

Remove sentence that fchownat() is present on Solaris

That point was only really relevant before fchownat() was

standardized in POSIX.1.2008.

Michael Kerrisk

CONFORMING TO: chown(), fchown(), lchown() are in POSIX.1-2008

link.2

Michael Kerrisk

Merge text of linkat(2)

Michael Kerrisk

CONFORMING TO: link() is in POSIX.1-2008

Michael Kerrisk

AT_EMPTY_PATH is Linux-specific and requires _GNU_SOURCE

mkdir.2

Michael Kerrisk

Merge text of mkdirat(2)

Michael Kerrisk

CONFORMING TO: mkdir() is in POSIX.1-2008

mknod.2

Michael Kerrisk

Merge text of mknodat(2)

Michael Kerrisk

CONFORMING TO: mknod(2) is in POSIX.1-2008

open.2

Michael Kerrisk

Merge text from openat(2)

Michael Kerrisk

Remove sentence that openat() is present on Solaris

That point was only really relevant before openat() was standardized in POSIX.1.2008.

readlink.2

Michael Kerrisk

Merge text of readlinkat(2)

Michael Kerrisk

CONFORMING TO: readlink() is in POSIX.1-2008.

Michael Kerrisk

Use argument name 'pathname' throughout page

(Some APIs were using 'path' while others used 'pathname')

rename.2

Michael Kerrisk

Merge text of renameat(2)

Michael Kerrisk

CONFORMING TO: rename(2) is in POSIX.1-2008

stat.2

Michael Kerrisk

Merge text from fstatat(2)

Michael Kerrisk

AT_EMPTY_PATH and AT_NO_AUTOMOUNT are Linux-specific
These flags require _GNU_SOURCE.

Michael Kerrisk

Use argument name 'pathname' throughout page
(Some APIs were using 'path' while others
used 'pathname')

Michael Kerrisk

Remove sentence that fstatat() is present on Solaris
That point was only really relevant before fstatat() was
standardized in POSIX.1.2008.

Michael Kerrisk

CONFORMING TO: stat(), fstat(), lstat() are specified in POSIX.1-2008

symlink.2

Michael Kerrisk

Merge text of symlinkat(2)

Michael Kerrisk

CONFORMING TO: symlink() is in POSIX.1-2008

unlink.2

Michael Kerrisk

Merge text of unlinkat(2)

Michael Kerrisk

Remove sentence that unlinkat() is present on Solaris
That point was only really relevant before unlinkat() was
standardized in POSIX.1.2008.

Michael Kerrisk

CONFORMING TO: unlink() is in POSIX.1-2008

mkfifo.3

Michael Kerrisk

Merge text of mkfifoat(3)

Michael Kerrisk

CONFORMING TO: mkfifo() is in POSIX.1-2008

scandir.3

Michael Kerrisk

Merge text of scandirat(3)

Michael Kerrisk

Update feature test macro requirements
The FTM requirements changed in glibc 2.10.

Michael Kerrisk

Remove libc4/libc5 note under CONFORMING TO
No-one much cares about Linux libc these days.

Michael Kerrisk

Put detail about alphasort under a NOTES heading

This text was under CONFORMING TO, which made no sense.

Michael Kerrisk

Rework CONFORMING TO text

Newly documented interfaces in existing pages

prctl.2

Kir Kolyshkin

Document PR_SET_MM options in Linux 3.5

Some of the PR_SET_MM options were merged to vanilla kernel later, and appeared in Linux 3.5. Those are:

- PR_SET_MM_ARG_START
- PR_SET_MM_ARG_END
- PR_SET_MM_ENV_START
- PR_SET_MM_ENV_END
- PR_SET_MM_AUXV
- PR_SET_MM_EXE_FILE

socket.7

Neil Horman

Document the SO_RXQ_OVFL

socket option

Michael Kerrisk

Add kernel version number for SO_RXQ_OVFL

New and changed links

faccessat.2

Michael Kerrisk

Convert to link to access.2

fchmodat.2

Michael Kerrisk

Convert to link to chmod.2

fchownat.2

Michael Kerrisk

Convert to link to chown.2

fstatat.2

Michael Kerrisk

Convert to link to stat.2

linkat.2

Michael Kerrisk

Convert to link to link.2

mkdirat.2

Michael Kerrisk

Convert to link to mkdir.2

mknodat.2

Michael Kerrisk

Convert to link to mknod.2

openat.2

Michael Kerrisk

Convert to link to open.2

readlinkat.2

Michael Kerrisk

Convert to link to symlink.2

renameat.2

Michael Kerrisk

Convert to link rename.2

symlinkat.2

Michael Kerrisk

Convert to link to symlink.2

unlinkat.2

Michael Kerrisk

Convert to link to unlink.2

mkfifoat.3

Michael Kerrisk

Convert to link to mkfifo.3

scandirat.3

Michael Kerrisk

Convert to link to scandir.3

Changes to individual pages

alarm.2

Michael Kerrisk

Note semantics of alarm with respect to fork() and execve()

fcntl.2

Michael Kerrisk

Warn that F_GETLK info may already be out of date when the call returns

intro.2

Michael Kerrisk

Describe policy on documenting differences between syscall and glibc API

mmap2.2

Michael Kerrisk

Reword note on glibc mmap() wrapper invocation of mmap2()

Michael Kerrisk

This system call does not exist on x86-64

msgctl.2

Michael Kerrisk

ERRORS: add EPERM for unprivileged attempt to set msg_qbytes > MSGMNB

prctl.2

Michael Kerrisk [Xiawei Chen]

Clarify that PR_GET_TIMERSLACK is returned as the function result

Michael Kerrisk

Clarify that PR_GET_SECCOMP is returned as function result

Michael Kerrisk

Clarify that PR_GET_NO_NEW_PRIVS is returned as function result

ptrace.2

Michael Kerrisk [Andrew Hunter]

Make it clearer that glibc and syscall APIs differ for PTRACE_PEEK*

Thanks to Denys Vlasenko's additions in 78686915aed6bd12

this page does note that the glibc API for PTRACE_PEEK*

differs from the raw syscall interface. But, as the report

at https://bugzilla.kernel.org/show_bug.cgi?id=70801 shows,

this information could be more obvious. This patch makes its so.

sgetmask.2

Michael Kerrisk

Note that these system calls don't exist on x86-64

swapon.2

Michael Kerrisk

Split EINVAL cases into separate entries under ERRORS

Michael Kerrisk

Add EINVAL error for invalid flags to swapon()

syscalls.2

Michael Kerrisk

SEE ALSO: add intro(2)

umount.2

Michael Kerrisk

Split EINVAL cases into separate items

Michael Kerrisk

ERRORS: Add EINVAL case that was new in 2.6.34

utime.2

Michael Kerrisk

Add note that modern applications probably want utimensat(2) etc.

crypt.3

Michael Kerrisk [KOSAKI Motohiro]

ERRORS: Add EINVAL and EPERM errors

See https://bugzilla.kernel.org/show_bug.cgi?id=69771

getifaddrs.3

Michael Kerrisk

Enhance example program

Print statistics for AF_PACKET interfaces.

Add missing feature test macro definition.

Reformat output.

iswctype.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function iswctype() is thread safe.

sem_post.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sem_post() is thread safe.

sem_unlink.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sem_unlink() is thread safe.

sem_wait.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions sem_wait(), sem_trywait() and sem_timedwait() are thread safe.

setbuf.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions setbuf(), setbuffer(), setlinebuf() and setvbuf() are thread safe.

strlen.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function strlen() is thread safe.

strnlen.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function strnlen() is thread safe.

strpbrk.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function strpbrk() is thread safe.

strsep.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function strsep() is thread safe.

swab.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function swab() is thread safe.

resolv.conf.5

Carlos O'Donnell

DESCRIPTION: mention that the data is trusted

In a recent discussion about DNSSEC it was brought to my

attention that not all system administrators may understand that the information in /etc/resolv.conf is fully trusted.

The resolver implementation in glibc treats /etc/resolv.conf as a fully trusted source of DNS information and passes on the AD-bit for DNSSEC as trusted.

This patch adds a clarifying sentence to make it absolutely clear that indeed this source of information is trusted.

ascii.7

Michael Kerrisk [Sulaiman Mustafa]

Fix rendering of single quote (decimal character 39)

Michael Kerrisk

SEE ALSO: add utf-8(7)

Michael Kerrisk [Duncan de Wet]

Remove mention of ISO 8859-1 as being the default encoding on Linux

packet.7

Neil Horman

Document PACKET_FANOUT_QM fanout mode

Michael Kerrisk

Add kernel version for PACKET_FANOUT_QM

Daniel Borkmann

Improve PACKET_QDISC_BYPASS description

socket.7

Michael Kerrisk

Add kernel version number for SO_BUSY_POLL

===== Changes in man-pages-3.62 =====

Released: 2014-03-11, Munich

Contributors

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Simon Paillard <spillard@debian.org>

Apologies if I missed anyone!

New and rewritten pages

locale.1

Michael Kerrisk [review from Mike Frysinger]

New page describing locale(1)

Newly documented interfaces in existing pages

locale.5

Michael Kerrisk

Document LC_ADDRESS

Michael

Kerrisk

Document LC_IDENTIFICATION

Michael Kerrisk

Document LC_MEASUREMENT

Michael Kerrisk

Document LC_NAME

Michael Kerrisk

Document LC_PAPER

Michael Kerrisk

Document LC_TELEPHONE

Removed Pages

sync.8

Michael Kerrisk [Christoph Hellwig, Pádraig Brady]

Sometime in the 20th century (before my watch), a sync(8) page into man-pages. It documents the sync command from "fileutils", which long ago become coreutils, and the piece under NOTES note some behavior of sync(2) that ceased to be true many years ago. The man-pages project generally focuses on only Linux kernel and (g)libc interfaces, so this sync(8) page doesn't really belong. Furthermore, coreutils has a sync(1) page which covers the same command. After discussions on the coreutils list, I've decided to retire this page from man-pages.

Changes to individual pages

clone.2

Michael Kerrisk

Note that CLONE_THREAD also in effect requires CLONE_VM

stat.2

Michael Kerrisk [Marius Gaubas]

Warn the reader that the 'stat' structure definition is not precise

Padding fields aren't shown, and the order of fields varies somewhat across architectures.

gethostbyname.3

Michael Kerrisk

Remove redundant FTM requirements

`_GNU_SOURCE` implies `_SVID_SOURCE` and `_BSD_SOURCE`, so

```
_BSD_SOURCE || _SVID_SOURCE || _GNU_SOURCE
```

is the same as

```
_BSD_SOURCE || _SVID_SOURCE
```

getutmp.3

Michael Kerrisk

SEE ALSO: `add utmpdump(1)`

log1p.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `log1p()`, `log1pf()` and `log1pl()` are thread safe.

logb.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `logb()`, `logbf()` and `logbl()` are thread safe.

memccpy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `memccpy()` is thread safe.

memchr.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `memchr()`, `memrchr()` and `rawmemchr()` are thread safe.

mktemp.3

Michael Kerrisk

Make warning not to use this function more prominent

qecvt.3

Michael Kerrisk [Joseph S. Myers]

Recommend `snprintf(3)` not `sprintf(3)`

raise.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function raise() is thread safe.

remove.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function remove() is thread safe.

sem_destroy.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sem_destroy() is thread safe.

sem_getvalue.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sem_getvalue()

is thread safe.

sem_init.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function sem_init() is thread safe.

socketmark.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function socketmark() is thread safe.

strcpy.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions strcpy() and strncpy() are thread safe.

Michael Kerrisk [Rick Stanley]

Fix a bug, and improve discussion of forcing termination with strncpy()

strspn.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions strspn() and strcspn() are thread safe.

tempnam.3

Michael Kerrisk

Make warning not to use this function more prominent

tmpnam.3

Michael Kerrisk

Recommend use mkstemp(3) or tmpfile(3) instead

locale.5

Michael Kerrisk

Add intro section that lists all of the LC categories

Michael Kerrisk

'p_cs_precedes' is for *positive* values

Michael Kerrisk

Clarify 'p_sign_posn' and 'n_sign_posn'; simplify 'n_sign_posn'

Add initial sentence for 'p_sign_posn' and 'n_sign_posn'.

Remove repeated list for 'n_sign_posn'.

Michael Kerrisk

Document LC_MESSAGES 'yesstr' and 'nostr'

Michael Kerrisk

Clarify LC_MONETARY 'n_cs_precedes'

Michael Kerrisk

LC_MONETARY: Document 'int_p_sign_posn' and 'int_n_sign_posn'

Michael Kerrisk

Clarify/rework 'p_cs_precedes' and 'n_cs_precedes'

Michael Kerrisk

LC_MONETARY: document 'int_p_sep_by_space' and 'int_n_sep_by_space'

Michael Kerrisk

Remove crufty reference to POSIX.2

Michael Kerrisk

LC_MONETARY: document 'int_p_cs_precedes' and 'int_n_cs_precedes'

Michael Kerrisk

Clarify/simplify 'n_sep_by_space'

Michael Kerrisk

LC_TIME: document 'cal_direction' and 'date_fmt'

Michael Kerrisk

Clarify 'p_sep_by_space'

feature_test_macros.7

Michael Kerrisk

_BSD_SOURCE and _SVID_SOURCE are deprecated in glibc 2.20

Michael Kerrisk

_GNU_SOURCE implicitly defines other macros

Saying that _GNU_SOURCE has the "effects of" other macros is not quite precise.

Michael Kerrisk

Reword glibc version for _ISOC95_SOURCE

Michael Kerrisk

_ISOC99_SOURCE also exposes C95 definitions

Michael Kerrisk

_ISOC11_SOURCE implies the effects of _ISOC99_SOURCE

Michael Kerrisk

Note version number for _POSIX_C_SOURCE >= 200112L implies C99/C95

_POSIX_C_SOURCE >= 200112L causes C95 definitions to be

exposed only since glibc 2.12 and C99 definitions only
since 2.10.

Michael Kerrisk

_XOPEN_SOURCE may implicitly define _POSIX_SOURCE and _POSIX_C_SOURCE

Michael Kerrisk

Reword glibc version for _ISOC99_SOURCE

Michael Kerrisk

Rework discussion of _ISOC99_SOURCE

Michael

Kerrisk

Improve discussion of _DEFAULT_SOURCE

Michael Kerrisk

_POSIX_C_SOURCE >= 200112L implies C95 and C95 features

===== Changes in man-pages-3.63 =====

Released: 2014-03-18, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

duplocale.3

Michael Kerrisk

New page documenting duplocale(3)

newlocale.3

Michael Kerrisk [Mike Frysinger]

New page documenting newlocale(3) and freelocale(3)

towlower.3

Michael Kerrisk

Largely rewrite description of tolower() to be simpler and clearer

towupper.3

Michael Kerrisk

Largely rewrite description of toupper() to be simpler and clearer

uselocale.3

Michael Kerrisk

New page documenting uselocale(3)

Newly documented interfaces in existing pages

open.2

Michael Kerrisk

Document O_DSYNC and rewrite discussion of O_SYNC

isalpha.3

Michael Kerrisk

Document the "_l" locale APIs

The GNU C library v2.3 added some locale APIs, most of which were later specified in POSIX.1-2008, namely:

isalnum_l()

isalpha_l()

isblank_l()

iscntrl_l()

isdigit_l()

isgraph_l()

islower_l()

isprint_l()

ispunct_l()

isspace_l()

isupper_l()

isxdigit_l()

isascii_l()

Also update and correct various pieces in CONFORMING TO
(and remove a few crufty old pieces there).

strerror.3

Michael Kerrisk

Document strerror_l()

toupper.3

Michael Kerrisk

Document toupper_l() and tolower_l()

tolower.3

Michael Kerrisk

Document tolower_l()

toupper.3

Michael Kerrisk

Document toupper_l()

proc.5

Michael Kerrisk

Document /proc/sys/kernel/random/uuid

locale.7

Michael Kerrisk

Document LC_ADDRESS

Document LC_IDENTIFICATION

Document LC_MEASUREMENT

Document LC_NAME

Document LC_PAPER

Document LC_TELEPHONE

New and changed links

freelocale.3

Michael Kerrisk

New link

to new newlocale.3 page

isalnum_1.3

isascii_1.3

isblank_1.3

isctrl_1.3

isdigit_1.3

isgraph_1.3

islower_1.3

isprint_1.3

ispunct_1.3

isspace_1.3

isupper_1.3

isxdigit_1.3

Michael Kerrisk

New links to isalpha.3

tolower_1.3

toupper_1.3

Michael Kerrisk

New links to toupper.3

towlower_1.3

Michael Kerrisk

New link to tolower.3

toupper_1.3

Michael Kerrisk

New link to toupper.3

Global changes

Various pages

Michael Kerrisk

Global change: "upper case" ==> "uppercase", "lower case" ==> lowercase"

Changes to individual pages

mount.2

Michael Kerrisk

SEE ALSO: add blkid(1)

msgop.2

Michael Kerrisk

Document two MSG_COPY failure modes

Since Linux 3.14, the kernel now diagnoses two errors when using msgrcv() MSG_COPY:

* MSG_COPY must be specified with IPC_NOWAIT

* MSG_COPY can't be specified with MSG_EXCEPT

open.2

Michael Kerrisk

Organize some material under additional subheadings in NOTES

There's an amorphous mass of material under NOTES. Structure it with some subheadings, and do a little reorganizing.

Michael Kerrisk

Add other system calls and functions that are like `openat()`

`fanotify_mark(2)`, `name_to_handle_at(2)`, and `scandirat(3)` have a directory file descriptor argument for the same reason as `openat()`.

Also: reword the rationale for the `*at()` functions somewhat.

Michael Kerrisk

Clarify ELOOP error interaction with `O_PATH`

readahead.2

Phillip Susi [Corrado Zoccolo, Gregory P. Smith, Zhu Yanhai, Michael Kerrisk, Christoph Hellwig]

Don't claim the call blocks until all data has been read

The `readahead(2)` man page was claiming that the call blocks until all data has been read into the cache. This is incorrect.

See https://bugzilla.kernel.org/show_bug.cgi?id=54271

stat.2

Michael Kerrisk

SEE ALSO: add `ls(1)` and `stat(1)`

fts.3

Christoph Hellwig [Michael Kerrisk]

The `fts(3)` API does not work with LFS builds

As pointed out during a recent discussion on `libc-hacker` the `fts(3)` APIs can't be used with large file offsets:

https://sourceware.org/bugzilla/show_bug.cgi?id=15838

mbrtowc.3

mbsnrtowcs.3

mbsrtowcs.3

mbtowc.3

Michael Kerrisk

Add entries in SEE ALSO

Mainly inspired by the POSIX pages.

mbsinit.3

Michael Kerrisk

SEE ALSO: add `mbrlen(3)`, `mbrtowc(3)`, and `wcrtomb(3)`

mbsrtowcs.3

wcsrtombs.3

Michael Kerrisk

SEE ALSO: add `mbsinit(3)`

mbstowcs.3

Michael Kerrisk [Stefan Puiu]

Add example program

And add some SEE ALSO entries

memcmp.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function memcmp() is thread safe.

memcpy.3

Peng Haitao

ATTRIBUTES: Note

function that is thread-safe

The function memcpy() is thread safe.

memfrob.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function memfrob() is thread safe.

memmem.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function memmem() is thread safe.

memmove.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function memmove() is thread safe.

mempcpy.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions mempcpy() and wmemcpy() are thread safe.

memset.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function memset() is thread safe.

strerror.3

Michael Kerrisk

CONFORMING TO: strerror() and strerror_r() are in POSIX.1-2008

Michael Kerrisk

Add SS heading for strerror_r()

toupper.3

Michael Kerrisk

Rewrite to more explicitly bring locales into
the discussion

Michael Kerrisk

Retitle BUGS section to NOTES

These are not really bugs, just background info.

wcrtomb.3

wcsnrtoombs.3

wcsrtombs.3

wcstombs.3

wctomb.3

Michael Kerrisk

SEE ALSO: add various entries

Mainly inspired by POSIX

core.5

Mike Frysinger [Michael Kerrisk]

Document core_pattern %d specifier

Document %P core_pattern specifier

Michael Kerrisk

Rearrange core_pattern specifiers alphabetically

locale.5

Michael Kerrisk

SEE ALSO: add newlocale(3) + duplocale(3)

feature_test_macros.7

Michael Kerrisk [Joseph S. Myers]

Remove mention of bogus _ISOC95_SOURCE macro

The _ISOC95_SOURCE macro is defined in <features.h>, but it
does nothing. So remove discussion of it, and move some of
the discussion of C95 under the _ISOC99_SOURCE subhead.

Michael Kerrisk [Carlos O'Donnell]

Add packaging note for _BSD_SOURCE/_SVID_SOURCE/_DEFAULT_SOURCE

To compile warning-free across glibc < 2.20 and glibc >= 2.20
code may be to define both _DEFAULT_SOURCE and either
_BSD_SOURCE or _SVID_SOURCE.

Michael Kerrisk

Reword description of C90

locale.7

Michael Kerrisk

Add subsection on POSIX.1-2008 (originally GNU) extensions to locale API

Michael Kerrisk

Remove reference to LI18NUNIX2000

LI18NUNIX2000 is difficult to even find these days, and in any case

this page does not document gettext(), so notes about gettext()
in the CONFORMING TO section here make no sense.

Michael Kerrisk

SEE ALSO: add mbstowcs(3) and wctombs(3)

SEE ALSO: add newlocale(3) + duplocale(3)

man-pages.7

Michael Kerrisk

Add preferred term "superblock"

Michael Kerrisk

Add preferred terms "uppercase" and "lowercase"

===== Changes in man-pages-3.64 =====

Released: 2014-04-06,

Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

open_by_handle_at.2

Michael Kerrisk [Mike Frysinger, Neil Brown, Aneesh Kumar K.V,
Christoph Hellwig]

New page describing name_to_handle_at(2) and open_by_handle_at(2)

inotify.7

Michael Kerrisk

Rewrite introductory section

Reorganize "Limitations and caveats" subsection

Michael Kerrisk

Further describe the race when adding a watch to a new subtree

Michael Kerrisk

Directory renames may invalidate multiple paths cached by application

Michael Kerrisk

Add paragraph on cache consistency checking

Michael Kerrisk

Mention cache rebuilding to handle overflow events

Michael Kerrisk

Moving an object to another filesystem generates IN_DELETE_SELF

Michael Kerrisk [Jan Kara]

Add text on dealing with rename() events

Michael Kerrisk

Note rationale and consequences of event coalescing

Michael Kerrisk [Eric W. Biederman]

Inotify doesn't work for remote and pseudo filesystems

Michael Kerrisk

Add some examples of events generated by various system calls

Michael Kerrisk

BUGS: IN_ONESHOT does now cause IN_IGNORED when the watch is dropped

A silent change as a result of the fanotify work in kernel 2.6.36.

Michael Kerrisk

Note that IN_DELETE_SELF will be followed by IN_IGNORED

Michael Kerrisk

Note that IN_UNMOUNT will be followed by an IN_IGNORED event

Michael Kerrisk

Inotify does not report events for mmap(2) and msync(2)

Michael Kerrisk

Add examples of syscalls that trigger IN_ATTRIB

Michael Kerrisk

Add some examples of syscalls that trigger IN_MODIFY

Michael Kerrisk

execve(2) also generates IN_ACCESS

Michael Kerrisk

Add examples of syscalls that trigger IN_CREATE

Newly documented interfaces in existing pages

perf_event_open.2

Vince Weaver [Michael Kerrisk]

Document the PERF_FLAG_FD_CLOEXEC flag

The Linux 3.14 release adds support for the PERF_FLAG_FD_CLOEXEC flag.

feature_test_macros.7

Michael Kerrisk

Document _LARGEFILE_SOURCE

tcp.7

Michael Kerrisk [Eric Dumazet]

Document /proc/sys/net/ipv4/tcp_autocorking

Text heavily based on Documentation/networking/ip-sysctl.txt

New and changed links

name_to_handle_at.2

Michael Kerrisk

New link to new open_by_handle_at(2) page

Global changes

fmemopen.3

getaddrinfo.3

mq_notify.3

offsetof.3

aio.7

Michael Kerrisk

Print size_t/ssize_t values using %z printf() modifier

There are fewer and fewer systems these days that don't support the %z specifier mandated in C99. So replace the use of %ld/%lu + (long) cast with %zd/%zu.

Changes to individual pages

bdflush.2

fsync.2

sync.2

Kir Kolyshkin

SEE ALSO: remove update(8) reference

Remove

reference to update(8) man page, since there is no such page. This is an ancient BSD leftover I believe.

chown.2

Michael Kerrisk

Note that 'dirfd' can be AT_FDCWD when AT_EMPTY_PATH is used

getxattr.2

Abhay Sachan

Fix RETURN VALUE description

A EA can have length zero.

inotify_add_watch.2

Michael Kerrisk

ERRORS: add ENAMETOOLONG

inotify_init.2

Michael Kerrisk

Add pointer to inotify(7)

link.2

Michael Kerrisk

When AT_EMPTY_PATH is specified, 'olddirfd' must not refer to a directory

mmap.2

Andrey Vagin

The file descriptor for a file mapping must be readable

There is no difference between MAP_SHARED and MAP_PRIVATE.

open.2

Michael Kerrisk

SEE ALSO: add open_by_name_at(2)

perf_event_open.2

Vince Weaver

Document PERF_EVENT_IOC_PERIOD behavior change

Linux 3.14 (in commit bad7192b842c83e580747ca57104dd51fe08c223)

changes

the perf_event PERF_EVENT_IOC_PERIOD ioctl() behavior

on all architectures to update immediately, to match the behavior

found on ARM.

stat.2

Michael Kerrisk

Note that 'dirfd' can be AT_FDCWD when AT_EMPTY_PATH is used

syscalls.2

Michael Kerrisk

Add sched_getattr() and sched_setattr()

And update kernel version to 3.14

abort.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function abort() is thread safe.

confstr.3

Michael Kerrisk

SEE ALSO: add getconf(1), fpathconf(3), sysconf(3), pathconf(3)

exit.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function exit() is not thread safe.

fenv.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions feclereexcept(), fegetexceptflag(), feraiseexcept(),
fesetexceptflag(), fetestexcept(), fegetround(), fesetround(),
fegetenv(),

fehldexcept(), fesetenv(), feupdateenv(),

feenableexcept(), fedisableexcept() and fegetexcept() are thread
safe.

fpathconf.3

Michael Kerrisk

SEE ALSO: add confstr(3)

fseek.3

Michael Kerrisk [Petr Gajdos]

Document EINVAL error for negative file offset

fseeko.3

Michael Kerrisk

Add feature test macro requirements

fts.3

Michael Kerrisk [Mike Frysinger]

Remove mention of "32-bit systems" in BUGS

fwide.3

wprintf.3

Michael Kerrisk [Robert P. J. Day]

Remove mention of bogus `_ISOC95_SOURCE` feature test macro

getline.3

Alexey Samsonov

Caller should free the allocated buffer even if `getline()` failed

Relevant discussion in glibc bugzilla:

https://sourceware.org/bugzilla/show_bug.cgi?id=5666

getloadavg.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `getloadavg()` is thread safe.

getpt.3

Peng Haitao

ATTRIBUTES:

Note function that is thread-safe

The function `getpt()` is thread safe.

if_nametoindex.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `if_nametoindex()` and `if_indextoname()` are thread safe.

index.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `index()` and `rindex()` are thread safe.

mkfifo.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `mkfifo()` and `mkfifoat()` are thread safe.

netlink.3

Michael Kerrisk

SEE ALSO: make the reference for `libnetlink` the `libnetlink(3)` man page

random.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `random()`, `srandom()`, `initstate()` and `setstate()`

are thread safe.

random_r.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `random_r()`, `srandom_r()`, `initstate_r()` and `setstate_r()` are thread safe.

sigvec.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `sigvec()`, `sigblock()`, `sigsetmask()` and `siggetmask()` are thread safe.

The macro `sigmask()` is thread safe.

sysconf.3

Michael Kerrisk

SEE ALSO: `add confstr(3)`

termios.3

Michael Kerrisk [Peter Hurley]

Fix error in discussion of `MIN > 0, TIME == 0` noncanonical mode

As reported by Peter Hurley, for the `MIN > 0, TIME == 0` case:

`read()` may unblock when `MIN` bytes are available but return up to the 'count' parameter if more input arrives in between waking and copying into the user buffer.

...

`read()` may also `_not_` return until `MIN` bytes have been received, even if 'count' bytes have been received.

Michael Kerrisk

Add a note on interaction of `O_NONBLOCK` with noncanonical `MIN/TIME`

POSIX leaves the behavior open.

Michael Kerrisk

Clarify termination conditions for `MIN > 0, TIME > 0`

Michael Kerrisk

Clarify behavior if data is available before noncanonical `read()`

Michael Kerrisk

Add descriptive titles to noncanonical `read()` cases

symlink.7

Michael Kerrisk

Add subsection on opening a symbolic link with `O_PATH`

Michael Kerrisk

`name_to_handle_at(2)` and `open_by_handle_at(2)` optionally follow symlinks

Michael Kerrisk

Mention use of `readlink(2)` to read contents of a symlink

===== Changes in man-pages-3.65 =====

Released: 2014-04-20, Munich

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

inet_net_pton.3

Michael Kerrisk

New page describing inet_net_pton(3) and inet_net_ntop(3)

Newly documented interfaces in existing pages

fallocate.2

Michael Kerrisk, Namjae Jeon [Christoph Hellwig, Dave Chinner]
Document FALLOC_FL_COLLAPSE_RANGE

prctl.2

Michael Kerrisk [Alex Thorlton]
Document PR_SET_THP_DISABLE and PR_GET_THP_DISABLE

proc.5

Michael Kerrisk
Document /proc/[pid]/stack
Michael Kerrisk
Document /proc/[pid]/clear_refs

New and changed links

inet_net_ntop.3

Michael Kerrisk
New link to new inet_net_pton.3

Changes to individual pages

fcntl.2

Michael Kerrisk
Note the race when O_CLOEXEC is used at same time as fork()+execve()

madvise.2

Michael Kerrisk
SEE ALSO: see prctl(2)
Because of PR_SET_THP_DISABLE.

mlock.2

Michael Kerrisk
Describe treatment of MCL_FUTURE during fork(2) and execve(2)

msync.2

Michael Kerrisk [Richard Hansen, Greg Troxel]
Warn that one of MS_SYNC or MS_ASYNC is required

open.2

Michael Kerrisk
Add more detail on the race that O_CLOEXEC is designed to avoid
Michael Kerrisk [Matthew Dempsky]

Remove

cruffy text stating that O_DIRECTORY is Linux-specific

Michael Kerrisk

Note which filesystems support O_TMPFILE

perf_event_open.2

Vince Weaver [Michael Kerrisk]

Clarify EACCES and EPERM errors

Clarify the reasons for EACCES and EPERM errors.

Vince Weaver [Michael Kerrisk]

Make the ERRORS section more comprehensive.

Determined both by code inspection and by writing a large number of test programs.

personality.2

Michael Kerrisk

Available execution domains are listed in <sys/personality.h>

Michael Kerrisk

Fix discussion of return value

prctl.2

Michael Kerrisk

ERRORS: document EINVAL for PR_GET_NO_NEW_PRIVS

ERRORS: document EINVAL for PR_SET_PDEATHSIG

ERRORS: document EINVAL for PR_SET_TIMING

ERRORS: document EINVAL for PR_SET_DUMPABLE

ERRORS: document EINVAL for PR_SET_NO_NEW_PRIVS

shmget.2

Michael Kerrisk

Rewrite description of SHMMNI

default value

Michael Kerrisk

Note default value of SHMMAX

Note default value for SHMALL

byteorder.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions htonl(), htons(), ntohl() and ntohs() are thread safe.

fexecve.3

Michael Kerrisk [Steven Stewart-Gallus]

If 'fd' is a close-on-exec file descriptor for a script, fexecve() fails

See https://bugzilla.kernel.org/show_bug.cgi?id=74481

ffs.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions ffs(), ffs1() and ffsll() are thread safe.

getauxval.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function getauxval() is thread safe.

getcontext.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions getcontext() and setcontext() are thread safe.

getsubopt.3

Peng Haitao

ATTRIBUTES: Note function that

is thread-safe

The function getsubopt() is thread safe.

getutmp.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions getutmp() and getutmpx() are thread safe.

inet.3

Michael Kerrisk

Note success and error return for inet_aton()

inet.3

Michael Kerrisk [Craig McQueen]

The form 'a.b' if is suitable for Class A addresses (not class C)

Michael Kerrisk

SEE ALSO: add inet_net_pton(3)

makecontext.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions makecontext() and swapcontext() are thread safe.

pthread_attr_setdetachstate.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setdetachstate() and pthread_attr_getdetachstate() are thread safe.

pthread_attr_setguardsize.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setguardsize()

and

pthread_attr_getguardsize() are thread safe.

sigsetops.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions sigemptyset(), sigfillset(), sigaddset(), sigdelset(), sigismember(), sigisemptyset(), sigorset() and sigandset() are thread safe.

proc.5

Petr Gajdos

Improve /proc/[pid]/smaps entries description

Michael Kerrisk

/proc/PID/smaps is present only if CONFIG_PROC_PAGE_MONITOR

Michael Kerrisk

Note kernel version for /proc/sys/kernel/{shmall,shmmax}

Michael Kerrisk

Note kernel version for /proc/sys/kernel/{msgmax,msgmnb}

capabilities.7

Michael Kerrisk

SEE ALSO: add capsh(1)

libc.7

Michael Kerrisk

Add musl libc

==== Changes in man-pages-3.66 =====

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Apologies
if I missed anyone!

New and rewritten pages

fanotify_init.2

Heinrich Schuchardt, Michael Kerrisk
New page documenting fanotify_init(2)

fanotify_mark.2

Heinrich Schuchardt, Michael Kerrisk
New page documenting fanotify_mark(2)

sched_setscheduler.2

Michael Kerrisk
Page rewritten
Stripped out the general scheduling material, which
moved to sched(7), and rewrote much of the remainder.
Changed copyright and license since pretty much all
of the content was or is written by mtk.

fanotify.7

Heinrich Schuchardt, Michael Kerrisk
New page providing overview of the fanotify API

sched.7

Michael Kerrisk

New page providing an overview of the scheduling APIs

Most of this content derives from sched_setscheduler(2). In preparation for adding a sched_setattr(2) page, it makes sense to isolate out this general content to

a separate

page that is referred to by the other scheduling pages.

Newly documented interfaces in existing pages

fallocate.2

Lukas Czerner [Michael Kerrisk]

Document FALLOC_FL_ZERO_RANGE

FALLOC_FL_ZERO_RANGE was added in Linux 3.14, for zeroing ranges in the allocated space in a file.

rename.2

Miklos Szeredi [Michael Kerrisk]

Document renameat2() system call added in Linux 3.15

shmop.2

Michael Kerrisk

Document SHM_EXEC

Changes to individual pages

flock.2

Michael Kerrisk

Employ term "open file description" in DESCRIPTION

And include reference to open(2) for an explanation of the term.

getpriority.2

Michael Kerrisk

SEE ALSO: add sched(7)

getsockopt.2

Carsten Andrich

SEE ALSO: add packet(7)

link.2

Michael Kerrisk [Steven Stewart-Gallus]

Document ENOENT error for linkat()

See https://bugzilla.kernel.org/show_bug.cgi?id=73301

msgget.2

Michael Kerrisk

Reword EEXIST error

msgop.2

Michael Kerrisk

Note capability required to raise MQ size beyond MSGMNB

msync.2

Michael Kerrisk [Heinrich Schuchardt]

s/flushes... back to disk/flushes... back to filesystem/

nice.2

Michael Kerrisk

SEE ALSO: add sched(7)

open.2

Peter Schiffer

Update note on alignment of user buffer and file offset for O_DIRECT

The sentence in open(2) man page in notes for O_DIRECT flag:

"Under Linux 2.6, alignment to 512-byte boundaries suffices."

is not universally correct. The alignment is a property of the storage, for example, 4k-sector drives with no 512 byte sector emulation will be unable to perform 512-byte direct I/O.

Michael Kerrisk

Note some of the various synonyms for "open file description"

Michael Kerrisk

Remove repetitious

text on use of fcntl() to change file status flags

open_by_handle_at.2

Michael Kerrisk

Mention FreeBSD analogs

posix_fadvise.2

Michael Kerrisk [Eric Siegerman]

Fix wording error under "Architecture-specific variants"

See https://bugzilla.kernel.org/show_bug.cgi?id=75431

process_vm_readv.2

Michael Kerrisk [Stijn Hinterding]

Add feature test macro requirements

The `_GNU_SOURCE` FTM must be defined.

read.2

Michael Kerrisk

BUGS: detail nonatomicity bug with respect to file offset updates

This bug was fixed in Linux 3.14, with commit

9c225f2655e36a470c4f58dbbc99244c5fc7f2d4

See also <http://thread.gmane.org/gmane.linux.kernel/1649458>

sched_get_priority_max.2

Michael Kerrisk

Small changes consistent with migration of content to sched(7)

sched_rr_get_interval.2

Michael Kerrisk

Small changes consistent with migration of content to sched(7)

sched_setaffinity.2

Michael Kerrisk

Small changes consistent with migration of content to sched(7)

sched_setparam.2

Michael Kerrisk

Small changes consistent with migration of content to sched(7)

sched_yield.2

Michael Kerrisk

Small changes consistent with migration of content to sched(7)

semget.2

Michael Kerrisk

Consolidate discussion on noninitialization of semaphores

The fact that semget() does not initialize the semaphores in a new set was covered in two places (in DESCRIPTION and BUGS). Consolidate these into one place (in NOTES) and also point out that POSIX.1-2008 says that a future version of the standard may require an implementation to initialize the semaphores to 0.

Michael Kerrisk

Clarify SEMMNS versus SEMMSL*SEMMNI

Michael Kerrisk

Rework EINVAL text a little

Michael Kerrisk

Clarify wording for EEXIST error

shmget.2

Manfred Spraul

Clarify SHMALL

The default for SHMALL is a limit of 8 GB, regardless of PAGE_SIZE. The current documentation does not mention that

and is therefore more difficult to understand than necessary.

Manfred Spraul

Correct math error

2097152 is 2^{21} , not 2^{20} .

Michael Kerrisk

Reword EEXIST error

Michael Kerrisk

Clarify one of the EINVAL cases

Michael Kerrisk

Note that SHM_NORESERVE is a Linux extension

Michael Kerrisk [Simon Paillard]

Fix kernel version numbers in discussion of SHMALL

Michael Kerrisk

Rework EINVAL text

Michael Kerrisk

Move and rework discussion of mode bits

Michael Kerrisk

Reword description of O_EXCL

shmop.2

Michael Kerrisk

Move fork(2), execve(2), _exit(2) discussion to NOTES

Michael Kerrisk

Add subheads for shmat() and shmdt()

Michael Kerrisk

Rework discussion of SHM_RDONLY and SHM_REMAP

into list format

Michael Kerrisk

Structure the attach cases as a list

sigaction.2

Alan Curry

Fix bad cross reference (times(2) not time(2))

The system call that reports child CPU usage is times(2),
not time(2).

symlink.2

Michael Kerrisk [Steven Stewart-Gallus]

Document ENOENT error for symlinkat()

See https://bugzilla.kernel.org/show_bug.cgi?id=73301

syscalls.2

Michael Kerrisk

Add renameat2()

And bump kernel version.

write.2

Michael Kerrisk

BUGS: detail nonatomicity bug with respect to file offset updates

This bug was fixed in Linux 3.14, with commit

9c225f2655e36a470c4f58dbbc99244c5fc7f2d4

See also <http://thread.gmane.org/gmane.linux.kernel/1649458>

pthread_attr_setinheritsched.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setinheritsched() and

pthread_attr_getinheritsched()

are thread safe.

pthread_attr_setschedparam.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setschedparam() and

pthread_attr_getschedparam() are thread safe.

pthread_attr_setschedpolicy.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setschedpolicy() and

pthread_attr_getschedpolicy() are thread safe.

pthread_attr_setscope.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setscope() and pthread_attr_getscope()

are thread safe.

pthread_attr_setstack.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setstack() and pthread_attr_getstack()

are thread safe.

sched_getcpu.3

Michael Kerrisk

SEE ALSO: add sched(7)

termios.3

Michael Kerrisk [Yuri Kozlov]

Rework intro text for 'c_oflag'

Michael Kerrisk

OFDEL is in POSIX.1-2001, so remove "(Not in POSIX)" text

proc.5

Jan Moskyto Matejka [Randy Dunlap]

Improve description of /proc/stat 'intr' field
The sum at the beginning of line "intr" includes also
unnumbered interrupts.

packet.7

Carsten Andrich [Neil Horman]

Improve sockopt documentation for packet sockets

Carsten Andrich [Willem de Bruijn]

PACKET_LOSS has inverse meaning

Stefan Puiu [Daniel Borkmann, Carsten Andrich]

Status in PACKET_RX_RING is actually a bit mask

Michael Kerrisk [Carsten Andrich]

SEE ALSO: add /tools/testing/selftests/net/psock_tpacket.c

==== Changes in man-pages-3.67 =====

Released: 2014-05-21, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
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Apologies if I missed anyone!

New and rewritten pages

sched_setattr.2

Michael Kerrisk, Peter Zijlstra [Juri Lelli]

New page describing sched_setattr(2)
and sched_getattr(2)

system.3

Michael Kerrisk

Rewrote large parts of the page and added a number of details

Newly documented interfaces in existing pages

sched.7

Peter Zijlstra, Michael Kerrisk [Juri Lelli]

Document SCHED_DEADLINE

New and changed links

renameat2.2

Michael Kerrisk

New link to rename.2

sched_getattr.2

Michael Kerrisk

New link to new sched_setattr

Changes to individual pages

bind.2

Michael Kerrisk

ERRORS: Add EADDRINUSE for ephemeral port range exhaustion

chown.2

Michael Kerrisk

NOTES: Add some subheadings

connect.2

Michael Kerrisk [William Morriss]

ERRORS: Add EADDRNOTAVAIL for ephemeral port range exhaustion

Verified from testing and the kernel source.

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=745775>

Michael Kerrisk

Remove mention

of ip_local_port_range under EAGAIN error

create_module.2

delete_module.2

init_module.2

query_module.2

Michael Kerrisk [Lucas De Marchi]

Clarify glibc header file declaration/ABI wrapper details

create_module(), delete_module(), init_module(), and

query_module() are not declared in header files, but

through an accident of history glibc provides an ABI

for them that it continues to maintain, for

compatibility reasons.

execve.2

Michael Kerrisk [Steven Stewart-Gallus]

Note SIGKILL case when execve() fails beyond the point of no return

Michael Kerrisk

NOTES: Add a subheading and reorder paragraphs

fanotify_init.2

Heinrich Schuchardt [Michael Kerrisk]

Document range of permitted flags for event_f_flags

With a new patch included in the mm tree, event_f_flags is

checked for allowable values.

fcntl.2

Michael Kerrisk

Add "file locking" subheading

under NOTES

fork.2

Michael Kerrisk

ERRORS: SCHED_DEADLINE tasks can fail with EAGAIN

SCHED_DEADLINE tasks can fail with EAGAIN unless the

reset-on-fork flag is set.

futex.2

Michael Kerrisk

Note that there is no glibc wrapper

getpriority.2

Rasmus Villemoes

Fix prototypes for getpriority() and setpriority()

The who argument has type id_t (which happens to be u32 on linux).

get_robust_list.2

Rasmus Villemoes

Add <sys/types.h> to synopsis of get_robust_list()

If one were to implement wrappers for [gs]et_robust_list() using the given prototypes, one would also have to include sys/types.h to get a definition of size_t.

getrusage.2

Michael Kerrisk [Bill Allombert]

_GNU_SOURCE must be defined to obtain RUSAGE_THREAD definition

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=746569>

link.2

open.2

Andy Lutomirski [Michael Kerrisk]

Update AT_EMPTY_PATH and O_PATH documentation

listen.2

Michael Kerrisk

ERRORS: Add EADDRINUSE for ephemeral port range exhaustion

mbind.2

Rasmus Villemoes

Fix prototype for mbind(2)

The nmask argument is const. The return type in numaif.h is long. (Well, at least <numaif.h> says nmask is const. The current kernel does not define it as a const argument, but sys_mbind() only passes it to get_nodes(), which does treat it as const.)

msgop.2

Davidlohr Bueso [Michael Kerrisk]

Enhance description of "full queue" criteria

poll.2

Rasmus Villemoes

Add <signal.h> to synopsis for ppoll()

One needs to #include <signal.h> to get the definition of the type (sigset_t) of the mask argument to ppoll().

readlink.2

Rasmus Villemoes

Fix return type of readlinkat()

recv.2

Michael Kerrisk

Clarify details of msg_name and msg_namelen fields

recvmmsg.2

Michael Kerrisk

Describe timeout bug

See https://bugzilla.kernel.org/show_bug.cgi?id=75371

and <http://thread.gmane.org/gmane.linux.man/5677>

remap_file_pages.2

Andy Lutomirski [Christoph Hellwig, Andy Lutomirski]

remap_file_pages() has no benefit for real files

Linux commit 3ee6dafc677a68e461a7ddafc94a580ebab80735 caused

remap_file_pages to be emulated when used on real file.

sched_get_priority_max.2

Michael Kerrisk

'policy' can also be SCHED_DEADLINE

sched_setaffinity.2

Rasmus Villemoes

Fix prototype for sched_setaffinity()

The mask argument is const.

sched_setparam.2

Michael Kerrisk

ERRORS: mark errors that apply just for sched_setparam()

Michael Kerrisk

ERRORS: Add EINVAL for invalid arguments

Michael Kerrisk

SEE ALSO: add sched_setattr(2)

sched_setscheduler.2

Michael Kerrisk

ERRORS: mark errors that apply just to sched_setscheduler()

Michael Kerrisk

ERRORS: add EINVAL case for pid < 0

Michael Kerrisk

ERRORS: separate out EINVAL cases

semget.2

Michael Kerrisk

NOTES: Add subheadings and reorder paragraphs

semop.2

Rasmus Villemoes

Fix prototypes for semop() and semtimedop()

The nsops arguments have type size_t, not unsigned, and the timeout argument of semtimedop() is const.

Michael Kerrisk

NOTES: Add a subheading

send.2

Michael Kerrisk

Add details on various 'msghdr' fields

Michael Kerrisk

ERRORS: Add EAGAIN for ephemeral port range exhaustion

Michael Kerrisk

Add some subheadings under DESCRIPTION

shmget.2

Michael Kerrisk

NOTES: Add a subheading

stat.2

Michael Kerrisk [Aurelien Jarno]

Describe feature test macro requirements for file type test macros

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=728240>

Michael Kerrisk

Update FTM requirements

for lstat()

Michael Kerrisk

Split discussion of 'st_mode' fields into type and permissions

Michael Kerrisk

Move text on S_I*() macros to follow text on S_I* macros

That ordering is more logical

stime.2

Rasmus Villoeoes

Fix prototype for stime()

The argument is const, both according to the actual header files and according to <<http://www.sco.com/developers/devspecs/vol1a.pdf>>.

syscall.2

Rasmus Villoeoes

Fix prototype for syscall()

The first argument and the return value of syscall() has type long, not int.

getopt.3

Michael Kerrisk

EXAMPLE: Add subheadings to distinguish the two example programs

malloc.3

Michael Kerrisk

Reword text referring to mallopt(3)

Linux libc is no longer "recent"; drop mention of it.

pthread_attr_setinheritsched.3

pthread_attr_setschedparam.3

pthread_attr_setschedpolicy.3

pthread_setaffinity_np.3

pthread_setschedparam.3

pthread_setschedprio.3

pthread_yield.3

pthreads.7

Michael Kerrisk

Change references to "sched_setscheduler(2)" to "sched(7)"

Change consistent with the fact that the scheduling overview page is now sched(7) not sched_setscheduler(2).

pthread_attr_setstackaddr.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setstackaddr() and pthread_attr_getstackaddr() are thread safe.

pthread_attr_setstacksize.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_attr_setstacksize() and pthread_attr_getstacksize() are thread safe.

pthread_kill.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_kill() is thread safe.

pthread_kill_other_threads_np.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_kill_other_threads_np() is thread safe.

pthread_self.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_self() is thread safe.

pthread_setcancelstate.3

Michael Kerrisk

Add paragraph breaks to "Asynchronous cancelability" subsection

pthread_setcancelstate.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_setcancelstate() and pthread_setcanceltype() are thread safe.

Michael Kerrisk

NOTES: Add some subheadings

pthread_setschedparam.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_setschedparam() and pthread_getschedparam() are thread safe.

pthread_setschedprio.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_setschedprio() is thread safe.

pthread_sigmask.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_sigmask() is thread safe.

pthread_sigqueue.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_sigqueue() is thread safe.

pthread_testcancel.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_testcancel() is thread safe.

pthread_yield.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_yield() is thread safe.

remquo.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions remquo(), remquof() and remquol() are thread safe.

rtime.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `rtime()` is thread safe.

`sched_getcpu.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `sched_getcpu()` is thread safe.

`stpcpy.3`

Ingo Schwarze

Note some history of

`stpcpy()`

Quoting Ingo:

I just noticed that the `stpcpy(3)` manual contains a speculation that appears to be untrue on closer investigation: That function did not originate in MS DOS, but in Lattice C on AmigaDOS.

Here is a patch against the git master HEAD to fix that, and add some more historical information. To provide some background and allow you to more easily verify the correctness of the patch, i'm appending my mail to misc@openbsd.org, where i'm giving some more details about the history and pointing to some primary sources. That mail also contains the (similar, but shorter) patch i just committed to the OpenBSD manual page.

`strcasemp.3`

Michael Kerrisk [Aurelien Jarno, Török Edwin]

Explain why `strcasemp()+strncasemp()` are also declared in `<string.h>`

See <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=729436>

`strep.3`

Michael Kerrisk

NOTES: Add a subheading

`fd.4`

Michael Kerrisk [Sam Varshavchik]

Fix floppy disk device names

The naming convention shown in the page was ancient.

Now, the page is consistent with `Documentation/devices.txt`

(where it is noted that "The use of the capital letters

D, H and E for the 3.5" models have been deprecated, since

the drive type is insignificant for these devices"

`proc.5`

Michael Kerrisk

Document `/proc/timer_stats`

Michael Kerrisk

(Briefly) document `/proc/timer_list`

Michael Kerrisk

Add /proc/sys/kernel/{sched_rt_period_us,sched_rt_runtime_us}

Reference sched(7) for an explanation of these two files

capabilities.7

Michael Kerrisk

Mention sched_setattr(2) under CAP_SYS_NICE

cpuset.7

Michael Kerrisk

SEE ALSO: add sched(7)

credentials.7

Michael Kerrisk

Mention sched_getattr() as a place where credentials are checked

fanotify.7

Heinrich Schuchardt [Jan Kara]

BUGS: error events can be lost when reading from fanotify FD

Michael Kerrisk [Heinrich Schuchardt]

Fix description of FAN_EVENT_NEXT()

FAN_EVENT_NEXT() does not update 'meta'; rather, it returns a pointer to the next metadata structure. In addition, generally rework the description to be a bit clearer and more detailed.

Heinrich Schuchardt

Document FAN_EVENT_METADATA_LEN

ip.7

Michael Kerrisk

Note cases where an ephemeral port is used

Michael Kerrisk

Remove BUGS text on glibc failing to declare in_pktinfo

Michael Kerrisk

Clarify 'ip_local_port_range' and mention the term "ephemeral ports"

Michael Kerrisk

Note some more details about assignment of ephemeral ports

Michael Kerrisk

BUGS: ephemeral port range exhaustion is diagnosed inconsistently

Different system calls use different 'errno'

values to diagnose

exhaustion of the ephemeral port range.

sched.7

Michael Kerrisk

Document sched_rt_period_us and sched_rt_runtime_us /proc files

And rework and relocate the text on dealing with runaway real-time processes.

Michael Kerrisk

Mention sched_setattr(2) in list of APIs that can change policies

Michael Kerrisk

sched_setattr(2) can also be used to set 'nice' value

Michael Kerrisk

Remove mention of sched_setscheduler() when talking about sched_priority

There are nowadays multiple ways to set sched_priority (and in fact there always were, since we also had sched_setparam(2)).

Michael Kerrisk

SEE ALSO: Add Documentation/scheduler/sched-design-CFS.txt

Michael Kerrisk

Don't mention sched_setscheduler(2) in discussions of setting policies

In a couple of places, sched_setscheduler(2) is mentioned as the way of setting policies.

But now there is sched_setattr(2) as

well, rewrite the text in a more generic way.

Michael Kerrisk

Rework summary text describing sched_setattr(2) and sched_getattr(2)

Note that these APIs are a superset of sched_setscheduler(2) and sched_getscheduler(2).

Michael Kerrisk

Remove crufty text relating to sched_setscheduler()

All of the removed text is in sched_setscheduler(2) and should have been trimmed from this page.

Michael Kerrisk

SEE ALSO: Mention more files in Documentation/scheduler/ directory

===== Changes in man-pages-3.68 =====

Released: 2014-05-28, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

localedef.1

Marko Myllynen, Richard Braakman, Alastair McKinstry, Lars Wirzenius

New page for localedef(1)

Add new page based on Debian localedef(1) page.

New and changed links

procf.5

New link to proc.5

Since the term "procf" is widely used, it seems reasonable to have
a link from that name to proc(5).

Changes to individual pages

locale.1

Marko Myllynen

Provide a step-by-step example of how to use a custom locale

Marko Myllynen

Use

LC_TELEPHONE instead of LC_MESSAGES in the example

yesstr/nostr in LC_MESSAGES are planned to be changed at some
point [1], so it's better to provide an example which won't
be obsoleted by that change.

[1] https://sourceware.org/bugzilla/show_bug.cgi?id=16975

adjtimex.2

Michael Kerrisk

Add feature test macro requirements

clone.2

Michael Kerrisk

ERRORS: add cross-reference to fork(2) for explanation of EAGAIN

fork.2

Michael Kerrisk

ERRORS: add pid_max and threads-max to EAGAIN

And rewrite text to be the same as pthread_create(3).

getrlimit.2

Michael Kerrisk

RLIMIT_NPROC is not enforced if CAP_SYS_ADMIN or CAP_SYS_RESOURCE

remap_file_pages.2

Rasmus Villemoes

Fix prototype

The pgoff argument has type size_t, not ssize_t (and in the kernel it is unsigned long).

set_mempolicy.2

Rasmus Villemoes

Fix prototype for set_mempolicy(2)

The nodemask argument is const. The return type in numaif.h is long.

swapon.2

Rasmus Villemoes

Remove header from synopsis

The <asm/page.h> header is not readily available, and the comment seems to indicate that it is for getting PAGE_SIZE. But it is never mentioned why one would need to know that, and it is in any case better obtained using sysconf(), provided by <unistd.h>.

a64l.3

Rasmus Villemoes

Fix prototype for a64l()

The argument is const, both according to POSIX and the glibc headers.

adjtime.3

Rasmus Villemoes

Add required header

The prototype for adjtime(3) is declared in <sys/time.h>.

argz_add.3

Rasmus Villemoes

Fix prototypes

Update the prototypes of argz_{delete,extract,next} to agree with glibc headers and manual.

bstring.3

Rasmus Villemoes

Fix prototypes

The length parameter `n`
has type `size_t` in `bcmp()`, `bcopy()` and
`bzero()`.

`envz_add.3`

Rasmus Villemoes

Fix prototypes

The `envz_len` parameters for `envz_entry()` and `envz_get()` are not
passed by reference.

`fpathconf.3`

Rasmus Villemoes

Fix prototype

The path argument to `pathconf()` is `const`.

`fseek.3`

Rasmus Villemoes

Fix prototype

The `pos` argument to `fsetpos()` is `const`.

`gcvt.3`

Rasmus Villemoes

Fix prototype

The `ndigit` parameter to `gcvt()` has type `int`.

`getaddrinfo_a.3`

Rasmus Villemoes

Fix prototype

The pointer arguments to `gai_suspend()` are `const`.

`getauxval.3`

Rasmus Villemoes

Fix permissions

There doesn't seem to be any reason for `getauxval.3` to be
executable...

`getnameinfo.3`

Rasmus Villemoes

Fix prototype

The `hostlen` and `servlen` parameters have type `socklen_t`.
(The types changed in glibc 2.2)

Michael

Kerrisk

Note types of 'hostlen'; and 'servlen' in glibc < 2.2

`getrpcent.3`

Rasmus Villemoes

Fix prototype

The argument to `getrpcbyname()` is `const`.

`getrpcport.3`

Rasmus Villemoes

Add `#include` and fix prototype

The prototype for `getrpcport()` is obtained by `#include'ing` `<rpc/rpc.h>`. Also, update its prototype.

`getspnam.3`

Rasmus Villemoes

Fix prototype

The struct `spwd` argument to `putspent()` is `const`.

`getutent.3`

Rasmus Villemoes

Fix prototypes

The arguments to `getutid()`, `getutline()`, and `pututline()` are `const`.

`inet.3`

Rasmus Villemoes

Fix prototype

The parameters to `inet_makeaddr` have type `in_addr_t`.

`inet_net_pton.3`

Rasmus Villemoes

`srcfix`, `cfix`

Use a consistent style throughout the man-pages.

`key_setsecret.3`

Rasmus Villemoes

Fix prototypes

Remove `const` qualifiers from arguments to `key_decryptsession`, `key_encryptsession`, and `key_setsecret`.

`makecontext.3`

Rasmus Villemoes

Fix prototype

The second argument to `swapcontext()` is `const`.

`makedev.3`

Rasmus Villemoes

Fix prototype

`gnu_dev_makedev`, and hence its trivial macro wrapper `makedev`, takes two unsigned int parameters; this is consistent with it being the inverse of `(gnu_dev_)major/minor`, which return unsigned int.

`malloc_trim.3`

Rasmus Villemoes

Fix prototype

As mentioned further down, `malloc_trim` returns an integer.

`mq_getattr.3`

Rasmus Villemoes

Fix prototype

The `newattr` parameter to `mq_setattr` is `const`.

`newlocale.3`

Marko Myllynen

List all available category masks

Michael Kerrisk

Add `LC_ALL_MASK` description

`nl_langinfo.3`

Marko Myllynen

Expand the example code a bit

Better illustrate querying elements from different categories.

`perror.3`

Rasmus Villemoes

Fix declaration

The elements of the array `sys_errlist` are also `const`.

`pthread_attr_setaffinity_np.3`

`pthread_attr_setdetachstate.3`

`pthread_attr_setguardsize.3`

`pthread_attr_setinheritsched.3`

`pthread_attr_setschedparam.3`

`pthread_attr_setschedpolicy.3`

`pthread_attr_setscope.3`

`pthread_attr_setstack.3`

`pthread_attr_setstackaddr.3`

`pthread_attr_setstacksize.3`

Rasmus Villemoes

Constify parameters

Each of the `pthread_attr_get*` functions extract some piece of information from a `pthread_attr_t`, which is passed by `const` reference. Add the `const` keyword to the prototypes of these functions.

`pthread_cleanup_push_defer_np.3`

Michael Kerrisk [Rasmus Villemoes]

Add feature test macro requirements

`pthread_create.3`

Michael Kerrisk [Carsten Grohmann]

Add pid_max limit to EAGAIN error cases

pthread_equal.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_equal() is thread safe.

pthread_exit.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_exit() is thread safe.

pthread_getcpuclockid.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function pthread_getcpuclockid() is thread safe.

pthread_setaffinity_np.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_setaffinity_np() and pthread_getaffinity_np() are thread safe.

pthread_setconcurrency.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions pthread_setconcurrency() and pthread_getconcurrency() are thread safe.

pthread_setname_np.3

Rasmus Villemoes

Fix prototype

The name parameter of pthread_getname_np is an output parameter and hence not const.

pthread_setschedparam.3

Rasmus Villemoes

Fix

prototypes

Add return type for pthread_{s,g}etschedparam.

pthread_setschedprio.3

Rasmus Villemoes

Fix prototype

Add return type for pthread_setschedprio.

pthread_sigqueue.3

Rasmus Villemoes

Add missing `#include <signal.h>`

rcmd.3

Rasmus Villemoes

Fix prototypes

Unlike the BSDs, the second argument of `rcmd()` and `rcmd_af()` has type `unsigned short`.

The first argument of `iruserok_af()` has type `const void*`.

re_comp.3

Rasmus Villemoes

Fix prototypes

`re_comp` and `re_exec` take `const char*` arguments.

resolver.3

Rasmus Villemoes

Fix prototypes and extern-declaration

Fix `const`- and `signedness` of various `char*` parameters.

Also, there is no "struct state", but `_res` is a struct `__res_state`. (Actually, `_res` is `errno`-like in that it is really a macro expanding to `(*__res_state())`.)

rexec.3

Rasmus Villemoes

Fix prototypes

The `user`, `passwd` and `cmd` arguments to `rexec` and `rexec_af` are all `const`.

rtime.3

Rasmus Villemoes

Replace header

The header `<rpc/des_crypt.h>` does not provide `rtime()`; `<rpc/auth_des.h>` does, as is also implied in both the `NOTES` and `EXAMPLE` sections.

scandir.3

Rasmus Villemoes

Fix prototypes

The `alphasort` and `versionsort` functions take arguments of type `const struct dirent **`, not `const void *`.

setlocale.3

Michael Kerrisk [Marko Myllynen]

Simplify locale category listing and add GNU-specific locale categories

Some information that was here will move to `locale(7)`.

Marko Myllynen

Remove now obsolete NOTES section

setnetgrent.3

Rasmus Villemoes

Fix prototype

The buflen argument to getnetgrent_r has type size_t.

sigvec.3

Rasmus Villemoes

Fix prototype

The vec argument to sigvec is const.

tsearch.3

Rasmus Villemoes

Fix prototype

The rootp argument to tfind is "void * const *",
not "const void **".

core.5

Michael Kerrisk

Core dump files are nowadays core.pid by default

locale.5

Marko Myllynen

Document mon_grouping and grouping properly

Michael Kerrisk

Note default value for 'first_workday'

Michael Kerrisk [Marko Myllynen]

Add brief descriptions of collating-element and collating-symbol

Marko Myllynen

t_fmt_ampm is needed only for locales that employ AM/PM convention

Michael Kerrisk [Marko Myllynen]

Remove crufty reference to /usr/lib/nls/src

That file is nowhere to be found

Marko Myllynen

Clarify LC_TIME/am_pm and LC_NAME keywords usage

am_pm should be defined only if AM/PM convention is used to signal
applications they should not try to print them when using them in
unwanted.

Same

for all LC_NAME keywords expect for name_fmt which should be
always defined.

Marko Myllynen

Clarify lang_term / lang_lib

As noted by Keld Simonsen in the lib-locales@sourceware mailing
list:

<https://sourceware.org/ml/libc-locales/2014-q2/msg00008.html>

From: Keld Simonsen <keld at rap dot rap dot dk>

To: Marko Myllynen <myllynen at redhat dot com>

Date: Tue, 29 Apr 2014 17:02:09 +0200

lang_term reflects ISO 639-2/T (terminology) codes, while

lang_lib reflects ISO 639-2/B (bibliographic) codes.

lang_term is preferred over lang_lib codes for locale names.

There are 20 specific ISO 639-2/B codes.

Marko Myllynen

Correct the FILES section

proc.5

Michael Kerrisk

'pid_max' is a system-wide limit on number of threads and processes

Since PIDs > /proc/sys/kernel/pid_max are not allocated,

this

file thus also imposes a system-wide limit on the number of
threads and processes.

capabilities.7

Michael Kerrisk

CAP_SYS_ADMIN allows overriding RLIMIT_NPROC

Michael Kerrisk

CAP_SYS_PTRACE allows process_vm_readv(2) and process_vm_writev(2)

charsets.7

Michael Kerrisk [Marko Myllynen]

Remove crufty statement that Romanian may be switching to ISO 8859-16

Michael Kerrisk

Remove ancient paragraph on charsets supported in glibc 2.3.2

That test is rather ancient, and probably of little use.

fanotify.7

Heinrich Schuchardt

Fix to example program: fanotify read() should use aligned buffer

inotify.7

Heinrich Schuchardt

Add example program

This example of the usage of the inotify API shows the
usage of inotify_init1(2) and inotify_add_watch(2) as well
as polling and reading from the inotify file descriptor.

Heinrich Schuchardt

munmap()

does not generate inotify events

locale.7

Marko Myllynen [Michael Kerrisk]

Document the LOCPATH environment variable

Michael Kerrisk

Add further details on various categories

===== Changes in man-pages-3.69 =====

Released: 2014-06-14, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

iconv.1

Marko Myllynen [Michael Kerrisk]

New page for the iconv(1) command

iconvconfig.8

Marko Myllynen

New page for iconvconfig(8)

Newly documented interfaces in existing pages

fcntl.2

Jeff Layton, Michael Kerrisk

Document open file description locks

As provided by the fcntl() operations F_OFD_SETLK,
F_OFD_SETLKW, and F_OFD_GETLK

Changes to individual pages

locale.1

Marko Myllynen

Add FILES section, add charmap(5) reference

Marko Myllynen

Align with recent charmap(5) / repertoiremap(5) changes

execve.2

Michael Kerrisk [NeilBrown]

Before kernel 2.6.0, RLIMIT_NPROC had no effect for set*uid()

Michael Kerrisk [Vasiliy Kulikov]

RLIMIT_NPROC is checked

only if preceded by set*uid()

Michael Kerrisk [Vasiliy Kulikov, NeilBrown, KOSAKI Motohiro]

Document EAGAIN error

See also https://bugzilla.kernel.org/show_bug.cgi?id=42704

fcntl.2

Michael Kerrisk

Detail the limitations of traditional (process-associated) locks

Michael Kerrisk [Jeff Layton]

Describe how to check whether the kernel supports a particular command

Michael Kerrisk

ERRORS: add EINVAL for invalid 'cmd'

Michael Kerrisk

Add para introducing advisory locks and noting existence of OFD locks

Michael Kerrisk [Jeff Layton]

Add notes on F_SETLKW deadlock detection and its limitations

Michael Kerrisk

Add an explicit note that mandatory locking is not in POSIX

Michael Kerrisk

Rewrite introductory paragraphs on mandatory locking

Make the structure more logical, and also explicitly mention

OFD locks.

Michael Kerrisk [Jeff Layton]

Reword discussion

of mandatory lock bug a little

Jeff Layton confirmed that the bug remains even in modern kernels.

Michael Kerrisk

Explain POSIX background to EACCES/EAGAIN error for F_GETLK

Michael Kerrisk

Add NOTES subhead for record locking and NFS

Michael Kerrisk [NeilBrown]

Note treatment of locks when an NFS client loses contact with the server

Michael Kerrisk [Jeff Layton]

nfsv4leasetime controls the "contact lost" interval for NFSv4

flock.2

Michael Kerrisk

In some modern BSDs, fcntl() and flock() locks do interact

So, reword and extend the discussion of this topic in NOTES.

Michael Kerrisk

Move NOTES text describing implementation of flock()

Michael Kerrisk [NeilBrown]

Add more details on NFS, including Linux 2.6.37 changes

Also: move NOTES text describing interaction of fcntl()
and flock() locks.

fork.2

Michael Kerrisk

Add notes on inheritance

of flock() and OFD locks across fork()

lseek.2

Michael Kerrisk

Add reference to open(2) for discussion of file descriptors and OFDs

open.2

Michael Kerrisk

Rework and extend the discussion of open file descriptions

open_by_handle_at.2

Rasmus Villemoes

Add reference to feature_test_macros(7)

recvmmsg.2

Rasmus Villemoes

Add reference to feature_test_macros(7)

remap_file_pages.2

Michael Kerrisk [Kirill A. Shutemov]

Note that `remap_file_pages()` is deprecated

sendmmsg.2

Rasmus Villemoes

Add reference to `feature_test_macros(7)`

seteuid.2

Michael Kerrisk

`seteuid()` and `setegid()` are implemented as library functions

Michael Kerrisk

Error checking should always be performed, even when caller is UID 0

setresuid.2

Michael Kerrisk

Document EAGAIN error that can occur after kernel `alloc_uid()` failure

Michael Kerrisk

Since Linux 3.1, the EAGAIN case for `RLIMIT_NPROC` no longer

occurs

Michael Kerrisk

Correct the description of the EAGAIN error

Michael Kerrisk

Error checking should always be performed, even when caller is UID 0

setreuid.2

Michael Kerrisk

Document EAGAIN error that can occur after kernel `alloc_uid()` failure

Michael Kerrisk

Error checking should always be performed, even when caller is UID 0

Michael Kerrisk

Add EAGAIN error for hitting `RLIMIT_NPROC` limit

Michael Kerrisk

Since Linux 3.1, the EAGAIN case for `RLIMIT_NPROC` no longer occurs

setuid.2

Michael Kerrisk

Document EAGAIN error that can occur after kernel `alloc_uid()` failure

Michael Kerrisk

Correct the description of the EAGAIN error

Michael Kerrisk

Error checking should always be performed, even when caller is UID 0

Michael Kerrisk

Since Linux 3.1, the EAGAIN case for `RLIMIT_NPROC` no longer occurs

statfs.2

Cyril Hrubis

Update MAGIC constants

Most of the updates are taken from /usr/include/linux/magic.h,
some were found by grepping the Linux source code.

Cyril Hrubis [Michael Kerrisk]

fstafs(2) was broken on file descriptors from pipe(2)

syscalls.2

Michael Kerrisk

Note that remap_file_pages() is deprecated

basename.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions basename() and dirname() are thread safe.

catgets.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function catgets() is thread safe.

getdate.3

Rasmus Villemoes

Use blank definition of _GNU_SOURCE in example program

getdirentries.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function getdirentries() is thread safe.

getdtablesize.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function getdtablesize() is thread safe.

iconv.3

Qian Lei

[Peng Haitao]

ATTRIBUTES: Note function that is thread-safe

The function iconv() is thread safe.

Michael Kerrisk

SEE ALSO: add iconvconfig(8)

lockf.3

Qian Lei [Peng Haitao]

ATTRIBUTES: Note function that is thread-safe

The function lockf() is thread safe.

malloc_get_state.3

Rasmus Villemoes

SYNOPSIS: use correct header

The nonstandard functions `malloc_set_state()` and `malloc_get_state()` are provided by `<malloc.h>` not `<stdlib.h>`.

`malloc_usable_size.3`

Qian Lei

ATTRIBUTES: Note function that is thread-safe

The function `malloc_usable_size()` is thread safe.

`matherr.3`

Qian Lei [Peng Haitao]

ATTRIBUTES: Note function that is thread-safe

The function `matherr()` is thread safe.

`mkdtemp.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `mkdtemp()` is thread safe.

`mkstemp.3`

Peng Haitao

ATTRIBUTES:

Note functions that are thread-safe

The functions `mkstemp()`, `mkostemp()`, `mkstemp()` and `mkostemp()` are thread safe.

`mq_close.3`

Qian Lei

ATTRIBUTES: Note function that is thread-safe

The function `mq_close()` is thread safe.

`mq_getattr.3`

Qian Lei

ATTRIBUTES: Note function that is thread-safe

The functions `mq_getattr()` and `mq_setattr()` are thread safe.

`mq_open.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `mq_open()` is thread safe.

`mq_receive.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `mq_receive()` and `mq_timedreceive()` are thread safe.

`mq_send.3`

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `mq_send()` and `mq_timedsend()` are thread safe.

`mq_unlink.3`

Qian Lei

ATTRIBUTES: Note function that is thread-safe

The function `mq_unlink()` is thread safe.

`posix_fallocate.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `posix_fallocate()` is thread safe.

`posix_openpt.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `posix_openpt()` is thread safe.

`siginterrupt.3`

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function `siginterrupt()` is not thread safe.

`system.3`

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function `system()` is thread safe.

`charmap.5`

Marko Myllynen

Update to match current glibc

`charmap(5)` was outdated, bring it to closer to reality by fixing syntax descriptions to match current glibc code and practices, adding missing options, removing obsolete comments and references, and removing now incorrect examples.

`locale.5`

Marko Myllynen

Clarify AM/PM settings a bit

`localedef(1)` complains if really undefined, should be empty instead.

Also: add some SEE ALSO references.

Marko Myllynen

Document glibc conventions regarding days and week

Based on existing practice and glibc community wiki page at <https://sourceware.org/glibc/wiki/Locales>

proc.5

Michael Kerrisk [Jan Chaloupka, Walter Harms]

Add a brief description of /proc/fs

repertoiremap.5

Marko Myllynen

New page for repertoiremap(5)

Rather obsolete feature but localedef(1) refers to repertoiremaps.

bootparam.7

Petr Gajdos

Describe 'rootflags' and 'rootdelay' kernel parameters

Patch based on text from Documentation/kernel-parameters.txt

charsets.7

Marko Myllynen

Update to reflect past developments

Rewrite the introduction to make Unicode's prominence more obvious.

Reformulate parts of the text to reflect current Unicode world.

Minor clarification

for ASCII/ISO sections, some other minor fixes.

Marko Myllynen

List CJK encodings in the order of C, J, K

environ.7

Michael Kerrisk

SEE ALSO: add env(1), printenv(1), ld.so(8)

locale.7

Marko Myllynen

Add some SEE ALSO references

man-pages.7

Michael Kerrisk

Note that .TH 'date' field is nowadays automatically updated by scripts

signal.7

Michael Kerrisk

Describe EINTR semantics for recvmsg(2)

Michael Kerrisk

Clarify text describing EINTR semantics for socket interfaces

unicode.7

Marko Myllynen

Update to reflect past developments

The unicode(7) page will look more modern with few small changes:

- drop old BUGS section, editors cope with UTF-8 ok these days,

- and perhaps the state-of-the-art is better described elsewhere anyway than in a man page
- drop old suggestion about avoiding combined characters
- refer to LANANA

for Linux zone, add registry file reference

- drop a reference to an inactive/dead mailing list
- update some reference URLs

utf-8.7

Marko Myllynen

Drop an old comment about UTF-8 replacing ISO 8859

And add locale(1) under SEE ALSO.

===== Changes in man-pages-3.70 =====

Released: 2014-07-08, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

sprof.1

Michael Kerrisk [Marko Myllynen]

New page for the glibc sprof(1) command

Newly documented interfaces in existing pages

epoll_ctl.2

NeilBrown

Document EPOLLWAKEUP

epoll.7

NeilBrown

Document EPOLLWAKEUP

Changes to individual pages

iconv.1

iconvconfig.8

Marko Myllynen

Clarify gconv file terminology a bit

ldd.1

Michael Kerrisk

SEE ALSO: add sprof(1)

connect.2

Michael Kerrisk

ERRORS: add EPROTOTYPE

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=708394>

dup.2

Michael Kerrisk [Rich Felker]

Fix erroneous discussion regarding closing 'newfd' before calling dup2()

And propose a workaround

if the caller cares about catching

close() time errors.

See http://stackoverflow.com/questions/23440216/race-condition-when-using-dup2#comment36888604_23444465

and <http://austingroupbugs.net/view.php?id=411>

Michael Kerrisk

Rework and enhance discussion of dup2()

In particular, note that dup2() performs the steps of closing

and reusing 'newfd' atomically.

Michael Kerrisk

Add subhead for dup3()

epoll_ctl.2

Michael Kerrisk

BUGS: EPOLLWAKEUP is silently ignored without CAP_BLOCK_SUSPEND

If the caller does not have CAP_BLOCK_SUSPEND, then EPOLLWAKEUP is silently ignored.

fcntl.2

Michael Kerrisk [Tomi Salminen]

The return value for F_SETPPIPE_SZ is the pipe capacity

Michael Kerrisk

ERRORS: Document ENOTDIR error for F_NOTIFY

Michael Kerrisk

Use proper page cross-references in F_NOTIFY discussion

Michael Kerrisk

Suggest the

use of real-time signals with F_NOTIFY

getitimer.2

Michael Kerrisk

Rewrite a few pieces to clarify some details

inotify_add_watch.2

Michael Kerrisk

Clarify that the target of a watch is an i-node

The target of a watch is an i-node, not a pathname. Clarify the text to prevent the reader possibly misunderstanding that establishing watches by two different links to the same file might create different watch descriptors.

open.2

Michael Kerrisk []

O_CLOEXEC is also one the flags not ignored when O_PATH is specified

pipe.2

Elie De Brauer

PIPE_BUF is defined in limits.h

To make use of PIPE_BUF in an application one should include <limits.h>. Adding a reference to this inclusion.

poll.2

Michael Kerrisk [Nadav Har'El]

The negate-fd-to-ignore technique does not work for file descriptor 0

See https://bugzilla.kernel.org/show_bug.cgi?id=79411

set_tid_address.2

Michael Kerrisk [Rich Felker]

Use "thread" rather than "process" in DESCRIPTION

Michael Kerrisk

SEE ALSO: add gettid(2)

shmop.2

Michael Kerrisk

Explain SHMLBA in much more detail

splice.2

Michael Kerrisk

Document EAGAIN error

See https://bugzilla.kernel.org/show_bug.cgi?id=48641

syscalls.2

Carlos O'Donnell

Add prlimit64(2)

While trying to reconcile the new features in glibc with the documented entries in the linux kernel man pages I noticed that glibc exports prlimit64 for use by 32-bit applications (as does the linux kernel), but that prlimit64 was not defined in the syscalls list or in the prlimit-related page.

This is not the complete fix for this, but I don't have the time to explain why and when prlimit64 should be used (or how it should be used safely). Therefore I'm just patching the syscalls.2

list

to show that prlimit64 exists and was added in 2.6.36 (verified with git by checking out the tags before and after).

syslog.2

Michael Kerrisk

Rework introductory paragraph

Michael Kerrisk [Robert P. J. Day]

Rework text describing loglevels

The kernel header file mentioned in the discussion of the KERN_* constants has morphed and is no longer exported inside glibc. And the definitions of the constants themselves changed subtly with kernel commit 04d2c8c83d0e3ac5f78aeede51babb3236200112. So, rewrite the description of the constants to be a bit more abstract.

Michael Kerrisk

Rewrite parts of the page, and import /proc/sys/kernel/printk

- * Move /proc/sys/kernel/printk from proc(5) to this page, and correct various details in the discussion of that file.
- * Rewrite and correct various other details on the page.

* Clean out some crufty text.

* Miscellaneous minor fixes.

Michael Kerrisk

Update SYSLOG_ACTION_CONSOLE_OFF + SYSLOG_ACTION_CONSOLE_ON description
Details changed in Linux 2.6.32

tee.2

Michael Kerrisk

Document EAGAIN error

See https://bugzilla.kernel.org/show_bug.cgi?id=48641

vmsplice.2

Michael Kerrisk

Document EAGAIN error

See https://bugzilla.kernel.org/show_bug.cgi?id=48641

ether_aton.3

Michael Kerrisk

Make description of ether_line() bug a little more informative

malloc.3

Michael Kerrisk [Florian Weimer]

MALLOC_MMAP_THRESHOLD_ and MALLOC_MMAP_MAX_ *do* work in setgid programs

My testing on this point was bogus, overlooking details of
strace(1)'s behavior with setuid programs.

See https://sourceware.org/bugzilla/show_bug.cgi?id=12155

printf.3

Michael Kerrisk [Rich Felker]

Remove libc4 and libc5 details

Rich Felker noted that "scare text" in the man page warned about
the use of snprintf() on libc, and that some people had cited
this as a reason not to use snprintf(). Linux libc is now
ancient history, so there is no real need to keep that text.
But, while we're at it, we may as well clear out all of the
other ancient libc4 and libc5 pieces in the page. They are
nowadays more clutter than help.

Michael Kerrisk

SUSv3 and later agree with C99 for the snprintf() return value

Determined by inspection of the SUSv3 and SUSv4 specifications.

Michael Kerrisk

Remove some old text about glibc 2.0 changes

We probably don't now need such ancient info.

Michael Kerrisk

Update references to standards for C and S conversion specifiers

profil.3

Michael Kerrisk

SEE ALSO: add sprof(1)

charmap.5

Marko Myllynen

Various minor updates and improvements

- more precise title
- extend description a bit
- document previously omitted WIDTH_DEFAULT

Marko Myllynen

Remove accidental ISO C compliance reference

glibc refers in locale/programs/charmap.c to ISO C 99 section 7.17.(2) and ISO C 99 section 5.2.1.(3) that if a character map is not ASCII compatible then the locale using it is not ISO C compliant. This does not state anything about the character set itself.

proc.5

Michael Kerrisk

Replace /proc/sys/kernel/printk discussion with reference to syslog(2)

It makes more sense to have the /proc/sys/kernel/printk with the related material in syslog(2).

Michael Kerrisk

Rewrite /proc/sys/kernel/printk description

inotify.7

Michael Kerrisk

Clarify which events are generated for watched directories

Really, with respect to watched directories, events fall into

three classes (not two, as was shown):

- * Events that can be generated only for the watched directory.
- * Events that can be generated only for objects that are inside the watched directory.
- * Events that can be generated both for the watched directory and for objects inside the directory.

So, mark these three classes more clearly in the list of inotify events.

Heinrich Schuchardt [Michael Kerrisk]

BUGS: Note possible bug triggered by watch descriptor reuse

Watch descriptor IDs are returned by inotify_add_watch().

When calling inotify_rm_watch() an IN_IGNORED is placed on the inotify queue pointing to the ID of the removed watch.

inotify_add_watch() should not return a watch descriptor ID for

which events are still on the queue but should return an unused ID.

Unfortunately, the existing Kernel code does not provide such a guarantee.

Actually, in rare cases watch descriptor IDs are returned by `inotify_add_watch()` for which events are still on the inotify queue.

See https://bugzilla.kernel.org/show_bug.cgi?id=77111

Michael Kerrisk

Add further detail to the watch descriptor reuse bug

As well as `inotify_rm_watch()`, file deletion and unmounting a filesystem can also cause a watch descriptor to be deleted.

Michael Kerrisk

The watch descriptor reuse bug may be hard to hit in practice

Explain the circumstances in detail, indicating that the bug may be very unlikely to occur in practice.

Michael Kerrisk

Clarify description of `IN_EXCL_UNLINK`

Clarify the text a little, in particular making it clearer that the target of a watch is an i-node (not a pathname).

Michael Kerrisk

Clarify `IN_ONESHOT` explanation

Make it clearer that the target of monitoring is an i-node, not a pathname.

Michael Kerrisk

Make comment on 'mask' field more accurate

libc.7

Michael Kerrisk

Clarify man-pages policy on documenting C libraries other than glibc

Michael Kerrisk

Use absolute dates in discussion of libc vs glibc

pipe.7

Elie De Brauwer

Add reference that the pipe capacity can be changed

In `fcntl(2)` `F_SETPIPE_SZ`, `F_GETPIPE_SZ` and `/proc/sys/fs/pipe-max-size` are defined, however `pipe(7)` still defines the pipe capacity as being a static entity. Adding a reference to `fcntl(2)`.

Michael Kerrisk [Walter Harms]

Clarify that since 2.6.35, 65535 bytes is the default pipe capacity

ld.so.8

Michael Kerrisk

Clarify that LD_PROFILE can specify just a single shared object

Michael Kerrisk

Clarify that LD_PROFILE output is appended to target file

The LD_PROFILE

output is appended to any existing

contents of the target file.

Michael Kerrisk

SEE ALSO: add sprof(1)

===== Changes in man-pages-3.71 =====

Released: 2014-08-17, Chicago

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Apologies if I missed anyone!

New and rewritten pages

group_member.3

Michael Kerrisk

New page documenting group_member(3)

isfdtype.3

Michael Kerrisk

New page documenting isfdtype(3)

Newly documented interfaces in existing pages

perf_event_open.2

Vince Weaver

Document new comm_exec flag

Linux 3.16 (more specifically, commit 82b897782d10fcc4)
added support for differentiating between process renames
caused by exec versus those caused by other methods.

Vince Weaver

Document new mmap2 record type

Linux 3.16 (more specifically, commit a5a5ba72843dd05f9)
enabled the enhanced mmap2 record support.
The interface was added in Linux 3.12 but disabled until
Linux 3.16.

Vince Weaver

Document PERF_SAMPLE_BRANCH_COND

Linux 3.16 (more specifically, commit bac52139f0b7ab31330)
adds support for gathering PERF_SAMPLE_BRANCH_COND
conditional branch values when doing PERF_SAMPLE_BRANCH_STACK
sampling.

proc.5

Michael Kerrisk

Document /proc/PID/comm

Michael Kerrisk

Document /proc/PID/pagemap

Michael Kerrisk

Document /proc/PID/personality

Michael Kerrisk

Document /proc/PID/syscall

Michael Kerrisk

Document /proc/kpagecount

Michael Kerrisk

Document /proc/kpageflags

Michael Kerrisk

Document /proc/sys/vm/overcommit_kbytes

capabilities.7

Michael Kerrisk

Add CAP_AUDIT_READ

CAP_AUDIT_READ is new in Linux 3.16.

Global changes

ldd.1

clone.2

execve.2

getpagesize.2

ioperm.2

msgop.2

readv.2

recv.2

select.2

send.2

seteuid.2

shmop.2

signal.2

sync.2

sysinfo.2

utime.2

abs.3

atoi.3

catopen.3

clearenv.3

ctime.3

des_crypt.3

ecvt.3

flockfile.3

fseeko.3

ftime.3

ftok.3

ftw.3

getcwd.3

getdtablesize.3

getline.3

getpass.3

getpass.3

gettutent.3

glob.3

insque.3

lseek64.3
memmem.3
mkstemp.3
mktemp.3
on_exit.3
openpty.3
putenv.3
putenv.3
qecvt.3
realpath.3
realpath.3
remove.3
setbuf.3
sigpause.3
strftime.3
strptime.3
tzset.3
xcrypt.3
utmp.5
environ.7
ipv6.7
packet.7

Michael Kerrisk

Remove ancient Linux libc details

access.2
brk.2
chmod.2
eventfd.2
gethostname.2
getpriority.2
mmap.2
poll.2
ptrace.2
readv.2
sched_setaffinity.2
select.2
seteuid.2
signalfd.2
sync_file_range.2
timer_create.2
uname.2
wait.2

Michael Kerrisk

NOTES: add "C library/kernel ABI differences" subheading

Changes to individual pages

access.2

Michael Kerrisk

Glibc falls back to using access() on kernels that lack faccessat()

bdflush.2

fsync.2

sync.2

proc.5

Adrian Bunk

Change "sync(1)" to "sync(8)"

bind.2

Michael Kerrisk [Ryan Hammonds]

Correct EINVAL

error description

As pointed out by Ryan:

My application is trying to bind an IPv4 UDP socket to an address. I've found that passing an invalid address length to bind() causes bind to return EINVAL. According to the bind(2) manpage, this should only occur when using unix domain sockets (which I am not).

chmod.2

Michael Kerrisk

Glibc falls back to chmod() on kernels that don't support fchmodat()

Michael Kerrisk

Glibc falls back to chown()/lchown() on kernels that lack fchownat()

epoll_wait.2

Michael Kerrisk

NOTES: describe raw epoll_pwait() system call differences

getgroups.2

Michael Kerrisk

SEE ALSO: add group_member(3)

getpriority.2

Michael Kerrisk

Enhance discussion of kernel nice range versus user-space nice range

Michael Kerrisk

Move text describing nice range on other systems

getrlimit.2

Michael Kerrisk

Add cross reference to core(5) in discussion of RLIMIT_CORE

Michael Kerrisk

Describe the "large" resource limit bug on 32-bit platforms

See https://bugzilla.kernel.org/show_bug.cgi?id=5042.

Michael Kerrisk

Glibc's setrlimit() and getrlimit() are implemented using prlimit()

kexec_load.2

Michael Kerrisk

Note limit of 16 for 'nr_segments'

Michael Kerrisk

Clarify the 'flags' bits that contain the architecture

Michael Kerrisk

Add KEXEC_ARCH_68K to list of architectures for 'flags'

Michael Kerrisk

Reword description of 'flags' a little

link.2

Michael Kerrisk

Glibc falls back to link() on kernels that lack linkat()

Unless 'flags' contains AT_SYMLINK_FOLLOW.

mkdir.2

Michael Kerrisk

Glibc falls back to mkdir() on kernels that don't support mkdirat()

perf_event_open.2

Vince Weaver

Clarify PERF_SAMPLE_STACK_USER usage

This clarifies the PERF_SAMPLE_STACK_USER

section.

I found these issue while implementing some code that uses the option. The important change is fixing the name of the sample_stack_user parameter, the rest is just some wording fixes and minor clarifications.

Vince Weaver

Clarify PERF_SAMPLE_DATA_SRC usage

When checking the fields in the PERF_SAMPLE_DATA_SRC type samples you need to shift the masks before doing the compare.

Although the value you are checking (perf_mem_data_src) is specified as a bitfield so this might all fall apart if trying to access the field in a cross-endian way. The Power people were working on this issue, not sure if they resolved it.

poll.2

Michael Kerrisk

Describe fifth argument (sigsetsize) of raw ppoll() system call

process_vm_readv.2

Michael Kerrisk [Ville Ylenius]

Fix typo in example program

readlink.2

Michael Kerrisk

Glibc falls back to readlink() on kernels that lack readlinkat()

recv.2

Michael Kerrisk

'addrlen' should be NULL (not 0) if we don't need sender address

rename.2

Michael Kerrisk

Glibc falls back to rename() when the kernel doesn't have renameat()

sigwaitinfo.2

Michael Kerrisk

The raw sigtimedwait() system call has a fifth argument

symlink.2

Michael Kerrisk

Glibc falls back to symlink() on kernels that lack symlinkat()

sysinfo.2

Michael Kerrisk

Add VERSIONS section

unlink.2

Michael Kerrisk

Glibc falls back to unlink() or rmdir() on kernels that lack unlinkat()

atoi.3

Michael Kerrisk

Downgrade discussion of atoq()

Remove most references to atoq() in this page, since this function was present only in Linux libc (not glibc).

cerf.3

cexp2.3

clog2.3

Michael Kerrisk

Update version number on "Not yet in glibc" sentence

fgetgrent.3

getgrent.3

getgrent_r.3

getgrnam.3

Michael Kerrisk [Rob Landley]

Clarify that 'gr_mem' is a NULL-terminated array of pointers

fseeko.3

Michael Kerrisk

Add VERSIONS section

ftw.3

Michael Kerrisk

Add VERSIONS section

getauxval.3

Michael Kerrisk

Document ENOENT error

And add an entry to BUGS explaining the ambiguity that was present before the addition of this error.

getgrouplist.3

Michael Kerrisk

SEE ALSO: add group_member(3)

getline.3

Rahul Bedarkar

Close opened file at end of example program

memmem.3

Michael Kerrisk

Rewrite text of glibc 2.0 bug

printf.3

Michael Kerrisk [Jakub Wilk]

Clarify details of the %n conversion specifier

See <http://bugs.debian.org/756602>

Michael Kerrisk [Jakub Wilk]

Note use of 'j', 'z', and 't' length modifiers for '%n'

See <http://bugs.debian.org/756602>

Michael Kerrisk

Update with some SUSv3 details

setbuf.3

Michael

Kerrisk

Remove ancient Linux libc and 4.x BSD details

strstr.3

Michael Kerrisk

Remove discussion of Linux libc bugs

Linux libc is old enough that we needn't care any longer.

strtod.3

Michael Kerrisk

Explain NAN(n-char-sequence)

strtod.3

Michael Kerrisk

SEE ALSO: add nan(3), nanf(3), NANL(3)

updwtmp.3

Michael Kerrisk

Replace AVAILABILITY section with note to link logwtmp() using -lutil

Linux libc details are no longer needed these days.

core.5

Rahul Bedarkar

Close opened file in example program

proc.5

Michael Kerrisk

Fix kernel version numbers for /proc/PID/stat fields

proc.5

Jan Chaloupka

Add missing proc stats fields

Adding missing proc stats fields from

<https://www.kernel.org/doc/Documentation/filesystems/proc.txt>

Michael Kerrisk [Simon Paillard]

Remove crufty text under 'timer_stats'

Michael Kerrisk

Update /proc/PID/stat

'state' field documentation

Michael Kerrisk

Improve description of /proc/PID/stat fields added in Linux 3.3 and 3.5

Michael Kerrisk

Refer to getauxval(3) in discussion of /proc/PID/auxv

Michael Kerrisk

Rework formatting of /proc/PID/stat list

Make the field numbers more prominent.

Michael Kerrisk

Note that /proc/PID/cmdline is read-only

Michael Kerrisk

Rework discussion of CommitLimit and /proc/sys/vm/overcommit_memory

Michael Kerrisk

Improve discussion of /proc/sys/vm/overcommit_ratio

charsets.7

David Prévot [Marko Myllynen]

Tidy up list

Remove German from main list, to be consistent with earlier removal of Dutch and French (in commit a8ed5f7430e0d1).

inotify.7

Michael Kerrisk

Note that IN_ONLY_DIR can be used to avoid races

Michael Kerrisk

Note that insertion of IN_MOVED_FROM+IN_MOVED_TO pair is not atomic

Michael Kerrisk

Mention use of timeout when reading IN_MOVED_TO after IN_MOVED_FROM

man-pages.7

Michael Kerrisk

Add description of "C library/kernel ABI differences" subsection

Michael Kerrisk

Rework text describing sections (stylistic improvements)

vdso.7

Mike Frysinger

Add new i386 vdso symbols in Linux 3.15

Michael Kerrisk

Note kernel version that exports new i386 symbols (Linux 3.15)

===== Changes in man-pages-3.72 =====

Released: 2014-09-07, Mountain View

Contributors

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Sorin

Dumitru <sdumitru@ixiacom.com>

Apologies if I missed anyone!

New and rewritten pages

memusage.1

Peter Schiffer, Michael Kerrisk [Jan Chaloupka]

New page for glibc memusage(1) command

memusagestat.1

Peter Schiffer [Jan Chaloupka, Michael Kerrisk]

New page for glibc memusagestat(1) command

mtrace.1

Peter Schiffer [Jan Chaloupka]

New page describing the glibc mtrace(1) command

Changes to individual pages

connect.2

Michael Haardt

Note that a new socket should be used if connect() fails

fcntl.2

Michael Kerrisk

One must define `_GNU_SOURCE` to get the `F_OFD_*` definitions

poll.2, select.2

Rusty Russell

Fix erroneous description of "available for write".

POSIX says: "POLLOUT Normal data may be written without blocking.". This "may" is misleading, see the POSIX

write page:

Write requests

to a pipe or FIFO shall be handled in the

same way as a regular file with the following exceptions:

...

If the `O_NONBLOCK` flag is clear, a write request may cause the thread to block, but on normal completion it shall return `nbyte`.

...

When attempting to write to a file descriptor (other than a

pipe or FIFO) that supports non-blocking writes and cannot accept the data immediately:

If the `O_NONBLOCK` flag is clear, `write()` shall block the calling thread until the data can be accepted.

If the `O_NONBLOCK` flag is set, `write()` shall not block the thread. If some data can be written without blocking the thread, `write()` shall write what it can and return the number of bytes written. Otherwise, it shall return `-1` and set `errno` to `[EAGAIN]`.

The net result is that `write()` of more than 1 byte on a socket, pipe or FIFO which is "ready" may block: `write()` (unlike `read!`) will attempt to write the entire buffer and only return a short write under exceptional circumstances.

Indeed, this is the behaviour we see in Linux:

<https://github.com/rustyrussell/ccan/commit/897626152d12d7fd13a8feb36989eb5c8c1f3485>

<https://plus.google.com/103188246877163594460/posts/BkTGMHDFgZ>

errno.3

Michael Kerrisk

SEE ALSO: `add_errno(1)`

rtnetlink.3

Holger Hans Peter Freyther

Fix parameters for the `send()` call in the example

inotify.7

Michael Kerrisk

`IN_OPEN` and `IN_CLOSE_NOWRITE` can also occur for directories

Michael Kerrisk

`IN_CLOSE_WRITE` occurs only for files (not monitored directory)

Michael Kerrisk

`IN_MODIFY` is generated for files only (not monitored directories)

Michael Kerrisk

`IN_ACCESS`

occurs only for files inside directories

`IN_ACCESS` does not occur for monitored directory.

packet.7

Sorin Dumitru

Fix include file

It looks like most of the socket options from this man pages are not defined in `<netpacket/packet.h>`. They are defined in `<linux/if_packet.h>` so we should include that one.

===== Changes in man-pages-3.73 =====

Released: 2014-09-21, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

namespaces.7

Michael Kerrisk [Eric W. Biederman]
New page providing overview of Linux namespaces

pid_namespaces.7

Michael Kerrisk [Eric W. Biederman, Vasily Kulikov, Rob Landley,
Serge Hallyn]
New page describing PID namespaces

user_namespaces.7

Michael Kerrisk [Eric W. Biederman, Andy Lutomirski, Serge Hallyn]
New page describing user namespaces.

Newly documented interfaces in existing pages

clone.2

Eric W. Biederman [Michael Kerrisk]

Document CLONE_NEWUSER for creating a new user namespace

setns.2

Eric W. Biederman, Michael Kerrisk

Document the PID, user, and mount namespace support

Document CLONE_NEWPID,
CLONE_NEWUSER, and CLONE_NEWNS flags.

unshare.2

Michael Kerrisk [Eric W. Biederman]

Document CLONE_NEWPID

Michael Kerrisk [Eric W. Biederman]

Document CLONE_NEWUSER

Michael Kerrisk

Document CLONE_THREAD, CLONE_SIGHAND, and CLONE_VM

Changes to individual pages

clone.2

Michael Kerrisk

Move some CLONE_NEWNET text to namespaces.7

Michael Kerrisk

Move some CLONE_NEWUTS text 2 to namespaces.7

Michael Kerrisk

Move some CLONE_NEWIPC text to namespaces.7

Michael Kerrisk

Reword discussion of CLONE_NEWNS, removing text also in namespaces(7)

Michael Kerrisk

Standardize text on CLONE_NEW* flags and CAP_SYS_ADMIN

Michael Kerrisk

EINVAL if (CLONE_NEWUSER|CLONE_NEWPID) && (CLONE_THREAD|CLONE_PARENT)

Michael Kerrisk

Add more detail on the meaning of CLONE_SYSVSEM

flock.2

Michael Kerrisk [J. Bruce Fields]

Don't mention "classical BSD"

in discussion of fcntl()/flock interaction

The noninteraction of flock(2) and fcntl(2) locks does
not seem to be classical BSD semantics (at least, checking

the 4.4BSD sources suggest that the lock types do interact, although there have been other systems also where `fcntl()` and `flock()` locks do not interact). So, fix the text discussing "classical BSD" lock semantics.

getunwind.2

Michael Kerrisk [Yuri Kozlov]

Fix description of return value

s/size of unwind table/size of the unwind data/

mount.2

Eric W. Biederman

Clarify use of 'mountflags' and 'data' for MS_REMOUNT

reboot.2

Michael Kerrisk [Justin Cormack, Eric W. Biederman]

Document effect of `reboot()` inside PID namespaces

semop.2

Michael Kerrisk

Refer to `clone(2)` for semantics of `CLONE_SYSVSEM` and `semadj` lists

seteuid.2

setgid.2

setresuid.2

setreuid.2

setuid.2

Michael Kerrisk

EINVAL

can occur if UID/GID is not valid in caller's user namespace

setns.2

Michael Kerrisk [Eric W. Biederman]

Clarify capabilities required for reassociating with a mount namespace

Michael Kerrisk

Specify kernel version on each `CLONE_NEW*` flag

And remove text on flags from `VERSIONS`.

unshare.2

Michael Kerrisk

Add an example program

Michael Kerrisk

Clarify semantics of `CLONE_SYSVSEM`

Michael Kerrisk

`CLONE_SYSVSEM` does not require `CAP_SYS_ADMIN`

Michael Kerrisk

Note flags implied by `CLONE_THREAD` and `CLONE_VM`

clock.3

Michael Kerrisk [Vincent Lefevre]

The implementation uses clock_gettime() was to improve *accuracy*
(The man page text mistakenly used the word "precision".)

drand48.3

Michael Kerrisk [Lorenzo Beretta]

Remove crufty text about SVID 3 marking drand48() obsolete
See <http://bugs.debian.org/758293>

proc.5

Michael Kerrisk

Move /proc/[pid]/mounts

text to namespaces.7

Michael Kerrisk

Move /proc/[pid]/mountstats text to namespaces.7

capabilities.7

Michael Kerrisk

Refer reader to user_namespaces(7) for a discussion of capabilities

Michael Kerrisk

Document CAP_SETUID and CAP_SETGID for user namespace mappings

Michael Kerrisk

setns() needs CAP_SYS_ADMIN in the *target* namespace

Michael Kerrisk

Since Linux 3.8, user namespaces no longer require CAP_SYS_ADMIN

mq_overview.7

Michael Kerrisk

Refer to namespaces(7) for info on POSIX MQs and IPC namespaces

svipc.7

Michael Kerrisk

Refer to namespaces(7) for info on System V IPC and IPC namespaces

==== Changes in man-pages-3.74 =====

Released: 2014-10-03, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

pldd.1

Michael Kerrisk

New page for pldd(1) command added to glibc in version 2.15

cp1252.7

Marko Myllynen

New page documenting CP 1252

CP 1252 is probably one of the most used Windows Code Pages so

let's add a page for it

alongside with the already provided

CP 1251 page.

Table generated from /usr/share/i18n/charmaps/CP1252.

Newly documented interfaces in existing pages

mq_overview.7

Michael Kerrisk

Document /proc/sys/fs/mqueue/msgsize_default

Michael Kerrisk

Changes to individual pages

ldd.1

Michael Kerrisk

SEE ALSO: add pldd(1)

execve.2

Michael Kerrisk [C. Alex North-Keys]

Remove unneeded ".sh" extension in interpreter script example

See https://bugzilla.kernel.org/show_bug.cgi?id=84701

fanotify_init.2

Heinrich Schuchardt

BUGS: O_CLOEXEC is ignored

Michael Kerrisk [Heinrich Schuchardt]

The 'event_f_flags' failure to check invalid flags was fixed in 3.15

fanotify_mark.2

Michael Kerrisk

Note that various bugs were fixed in Linux 3.16

getrlimit.2

Michael Kerrisk

[Doug Ledford]

Since Linux 3.5, the accounting formula for RLIMIT_MSGQUEUE has changed

open.2

Michael Kerrisk [Shriramana Sharma]

Fix number and formula in description of EOVERFLOW error

readlink.2

Michael Kerrisk [Ben Hutchings]

Fix description of readlinkat() with empty 'pathname'

Michael Kerrisk

SEE ALSO: add realpath(3)

sched_setattr.2

sched_setscheduler.2

Michael Kerrisk

SEE ALSO: add chrt(1)

shmget.2

Manfred Spraul [Michael Kerrisk, Davidlohr Bueso]

Update for increase of SHMALL and SHMMAX

The default values of SHMALL and SHMMAX have been increased.

syscalls.2

Michael Kerrisk

Add 3 new system calls added in Linux 3.17

vmsplice.2

Cyril Hrubis

vmsplice() does not fail when nr_segs==0

This nr_segs==0 case is no-op; the call succeeds and no EINVAL error is returned.

dlopen.3

Michael Kerrisk

SEE ALSO: add pldd(1)

fseeko.3

Michael

Kerrisk [Thomas Mack]

_FILE_OFFSET_BITS must be defined before including any header file

getgrent.3

Carlos O'Donell

Add ENOENT and EAGAIN to error list

mq_getattr.3

Michael Kerrisk

Add an example program

The example program can be used to discover the default 'mq_maxmsg' and 'mq_msgsize' values used to create a queue with a mq_open(3) call in which 'attr' is NULL.

mq_open.3

Michael Kerrisk

Two /proc files control the defaults for the attr==NULL case

Refer the reader to the discussion in mq_overview(7) for a discussion of these files, which exist since Linux 3.5.

realpath.3

Michael Kerrisk

SEE ALSO: add realpath(1)

proc.5

Elie De Brauwere

Document /proc/buddyinfo

This patch adds a short description about the contents of /proc/buddyinfo and how this file can be used to assist in checking for memory fragmentation issues.

Michael Kerrisk

Mention pmap(1) in discussion of /proc/PID/smmaps

armSCII-8.7

Marko Myllynen

Charset pages unification, minor cleanups

ascii.7

Marko Myllynen

Charset pages unification, minor cleanups

This and [the related *.7] patches will provide unification of charset pages, minor cleanups, and some unifying cosmetic changes. References are adjusted so that all pages include a reference to charsets(7), which contains a description of these sets, stray comments are removed, some obsolete statements (like ISO 8859-1 being the de-facto ASCII replacement) are removed, and some minor reformatting to minimize diff's between the pages are done.

The actual substance, the character tables, remain unchanged.

This series changes the following pages (under man7): ascii, armSCII, cp1251, koi8-r, koi8-u, and all of iso_8859-.*.

cp1251.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-10.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-11.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-13.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-14.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-15.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-16.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-1.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-2.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-3.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-4.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-5.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-6.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-7.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-8.7

Marko Myllynen

Charset pages unification, minor cleanups

iso_8859-9.7

Marko Myllynen

Charset pages unification, minor cleanups

koi8-r.7

Marko Myllynen

Charset pages unification, minor cleanups

- remove stray comments, streamline description (charsets(7) and Wikipedia provide more detailed and up-to-date description)
- list differences between koi8-r.7 vs koi8-u.7

koi8-u.7

Marko Myllynen

Charset pages unification, minor cleanups

- remove stray comments, streamline description (charsets(7) and Wikipedia provide more detailed and up-to-date description)
- list differences between koi8-r.7 vs koi8-u.7

mq_overview.7

Michael Kerrisk

Update queues_max

details for Linux 3.14

And in general rework the text a little.

Michael Kerrisk

Update discussion of HARD_MSGMAX

The limit has changed in 2.6.33 and then again in 3.5.

Michael Kerrisk [Arto Bendiken]

Update details for 'queues_max' limit

Things changed in Linux 3.5.

See <https://bugs.launchpad.net/bugs/1155695>

Michael Kerrisk

Update details on defaults and ceiling for 'msgsize_max' limit

Michael Kerrisk

Rework discussion of HARD_MSGMAX

Michael Kerrisk [Davidlohr Bueso]

Various fixes after review from Davidlohr Bueso

sched.7

Michael Kerrisk

SEE ALSO: add taskset(1)

ld.so.8

Michael Kerrisk

SEE ALSO: add pldd(1)

Michael Kerrisk

SEE ALSO: add dlopen(3)

Michael Kerrisk

SEE ALSO: add ld(1)

==== Changes in man-pages-3.75 =====

Released: 2014-10-15, Düsseldorf

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Apologies if I missed anyone!

New and rewritten pages

pthread_rwlockattr_setkind_np.3

Robert Schweikert [Michael Kerrisk]

New page documenting pthread_rwlockattr_[sg]etkind_np(3)
Documents pthread_rwlockattr_setkind_np(3) and
pthread_rwlockattr_getkind_np(3).

New and changed links

pthread_rwlockattr_getkind_np.3

Robert Schweikert

New link to pthread_rwlockattr_setkind_np(3)

Changes to individual pages

readlink.2

Michael Kerrisk [Jonny Grant]

Add free() call to example program

readv.2

Michael Kerrisk

The raw readv() and pwritev() syscalls split 'offset' into 2 arguments

signal.7

Michael Kerrisk

pthread_mutex_lock() and pthread_cond_wait() are restartable
pthread_mutex_lock(), pthread_cond_wait(), and related APIs are

automatically restarted if interrupted by a signal handler.

unix.7

Michael Kerrisk [Carlos O'Donell, David Miller, Tetsuo Handa]

Various additions and rewordings

Notable changes:

- * Clarify some details for pathname sockets.
- * Add some advice on portably coding with pathname sockets.
- * Note the "buggy" behavior for pathname sockets when the supplied pathname is 108 bytes (after a report by Tetsuo Handa).

==== Changes in man-pages-3.76 =====

Released: 2014-12-31, Munich

Contributors

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Apologies if I missed anyone!

New and rewritten pages

adjtimex.2

Laurent Georget

Add fields in struct timex description

This patch updates the man page with the new fields added in struct timex since last edition of the man page.

Laurent Georget [Michael Kerrisk]

Document ADJ_TAI

Michael Kerrisk

Improve description of ADJ_OFFSET_SINGLESHOT

Michael Kerrisk

Add brief documentation of ADJ_MICRO and ADJ_NANO

Michael Kerrisk

Reformat return value list

And remove

numeric values, since they're not needed

Michael Kerrisk

Other 'modes' bits are ignored on ADJ_OFFSET_*

Other bits in 'modes' are ignored if modes contains

ADJ_OFFSET_SINGLESHOT or ADJ_OFFSET_SS_READ.

Michael Kerrisk

Add nanosecond details

Fixes https://bugzilla.kernel.org/show_bug.cgi?id=61171.

Michael Kerrisk

Document ADJ_OFFSET_SS_READ

Michael Kerrisk

Reformat 'times' flags as list

And remove numeric values, since they're not needed.

Michael Kerrisk

Note effect of ADJ_NANO for ADJ_SETOFFSET

Michael Kerrisk

Add comment noting that timex structure contains padding bytes

Michael Kerrisk

Add more details to description of 'tai' field

Michael Kerrisk

Note meaning of "PLL" abbreviation

Michael Kerrisk

Clarify which 'timex' field is used by each 'modes' bit

Michael Kerrisk

Document timex 'status' bits

Michael Kerrisk

Clarify treatment of other 'modes' bits for ADJ_OFFSET_*

Michael Kerrisk

Update RFC number: RFC 5905 obsoletes RFC 1305

Michael Kerrisk

Briefly document ADJ_SETOFFSET

Michael Kerrisk

Note PPS (pulse per second) fields in timex structure

sigreturn.2

Michael Kerrisk

Add (a lot) more detail on the signal trampoline

And rewrite much of the page.

Newly documented interfaces in existing pages

proc.5

Bernhard Walle

Document /proc/thread-self

/proc/thread-self has been introduced in Linux 3.17 with
commit 0097875bd41528922fb3bb5f348c53f17e00e2fd.

Sven Hoexter [Michael Kerrisk, Kamezawa Hiroyuki]

Document "VmSwap" field of /proc/[pid]/status

Florian Westphal

Document /proc/net/netfilter/nfnetlink_queue

Changes to individual pages

localedef.1

Marko Myllynen

Mention default path
for compiled files

clock_nanosleep.2

Michael Kerrisk

Note that 'clock_id' can also be a CPU clock ID

epoll_ctl.2

Michael Kerrisk

Regular files and directories can't be monitored with epoll_ctl()

ioctl.2

Heinrich Schuchardt

Rename 'd' argument to 'fd' in text

In most other manpages file descriptors are called 'fd'.

This patches renames attribute 'd' to 'fd'.

madvise.2

Michael Kerrisk

VERSIONS: Support for madvise() is now configurable

Support for this system call now depends on the

CONFIG_ADVICE_SYSCALLS configuration option.

open.2

Michael Kerrisk

Enhance rationale discussion for openat() and friends

posix_fadvise.2

Mel Gorman

Document the behavior of partial page discard requests

It is not obvious from the interface that "partial page discard"
requests are ignored. It should be spelled out.

Michael Kerrisk [Weijie Yang]

ERRORS:

Since 2.6.16, the kernel correctly deals with the ESPIPE case

Michael Kerrisk

Support for fadvise64() is now configurable

Support for this system call now depends on the

CONFIG_ADVICE_SYSCALLS configuration option.

prctl.2

Andreas Schwab

Correct description of null-termination in PR_GET_NAME and PR_SET_NAME

The size of the process name has always been at most 16 byte
including the null terminator. This also means that the
name returned by PR_GET_NAME is always null-terminated.

Michael Kerrisk

PR_SET_NAME silently truncates strings that exceed 16 bytes

restart_syscall.2

Michael Kerrisk

Add some text explaining why restart_syscall() exists

sched_setaffinity.2

Michael Kerrisk

NOTES: Add paragraph on how to discover set of CPUs available on system

Michael Kerrisk

SEE ALSO: add nproc(1) and lscpu(1)

select.2

Michael Kerrisk

SEE ALSO: add

restart_syscall(2)

semop.2

Michael Kerrisk

Add note that interrupted semtimedop() returns 'timeout' unchanged

Michael Kerrisk

Remove information about semtimedop() EAGAIN that is repeated elsewhere

Michael Kerrisk

Add subsection head for semtimedop()

setsid.2

Michael Kerrisk

Rewrite some pieces and add some details

Among other changes, add an explanation of why setsid() can't be called from a process group leader

sgetmask.2

Michael Kerrisk

Since 3.16, support for these system calls is configurable

Support for these calls is now dependent on the setting of the CONFIG_SGETMASK_SYSCALL option.

sigaction.2

Michael Kerrisk

Document SA_RESTORER

Michael Kerrisk

Add some detail on the sa_restorer field

Michael Kerrisk

SEE ALSO: add sigreturn(2)

splice.2

Michael Kerrisk

Reformat description of 'fd_in' and 'off_in' to improve readability

syscall.2

Michael Kerrisk

SEE ALSO: add errno(3)

syscalls.2

Michael Kerrisk

SEE ALSO: add errno(3)

Michael Kerrisk

3.19 adds execveat()

Michael Kerrisk

Add bpf(2) to list

tee.2

Michael Kerrisk

Add shell session demonstrating use of the example program

tkill.2

Michael Kerrisk [Rich Felker]

Remove bogus text saying tgid==1 makes tkill() equivalent to kill()

abort.3

Michael Kerrisk

Note that SIGABRT is raised as though raise(3) is called

Also note that abort() is POSIX.1-2008 compliant.

cmsg.3

David Wragg

Ensure buf is suitably aligned in sending example

Inspection of the definition of CMSG_FIRSTHDR (both in glibc and the suggested definition in RFC3542) shows that it yields the msg_control field. So when sending, the pointer placed in msg_control should be suitably aligned as a struct cmsghdr.

In the sending example,

buf was declared as a bare char array,

and so is not necessarily suitably aligned.

The solution here involves placing buf inside a union, and is based on the sockets/scm_rights_send.c sample from The Linux Programming Interface "dist" source code collection.

exp10.3

Michael Kerrisk

Before glibc 2.19, exp() did not give ERANGE error on underflow

http://sources.redhat.com/bugzilla/show_bug.cgi?id=6787

ftw.3

Michael Kerrisk

FTW_CHDIR has no effect on the 'fpath' argument passed to fn()

getopt.3

Michael Kerrisk [Jonny Grant]

Ensure that 'nsecs' is used

ilogb.3

Michael Kerrisk [Will Newton]

Since glibc 2.16, ilogb() does correctly diagnose domain errors

memcmp.3

Michael Haardt

Document return value for n==0 case

Michael Haardt

Warn against use of memcmp() for comparing security-critical data

mq_open.3

Michael Kerrisk

Document the O_CLOEXEC

flag

Michael Kerrisk

Place 'flags' constants in alphabetical order

pow.3

Manuel López-Ibáñez

Add note on performance characteristics of pow()

pthread_setschedparam.3

Simon Newton

Fix logic error in example program

The example program will crash if -A is used, since 'attr' is uninitialized.

```
$ ./a.out -A
```

```
*** Error in `./a.out': free(): invalid pointer: 0xb779c3c4 ***
```

```
Aborted (core dumped)
```

Small fixes to example program

sigvec.3

Michael Kerrisk

Starting with version 2.21, glibc no longer exports sigvec()

sysconf.3

Josh Triplett

Document _SC_NGROUPS_MAX

Already documented in getgroups(2), but not in sysconf(3).

termios.3

Michael Kerrisk

SEE ALSO: add tset(1)

tgamma.3

Michael Kerrisk

Since glibc 2.18, errno is correctly set to EDOM when (x == -infinity)

wordexp.3

Carlos O'Donell

Make

it clear that WRDE_NOCMD prevents command substitution

The use of WRDE_NOCMD prevents command substitution. If the flag WRDE_NOCMD is set then no command substitution shall occur and the error WRDE_CMDSUB will be returned if such substitution is requested when processing the words.

The manual page as-is makes it seem like the command substitution occurs, and an error is returned *after* the substitution.

This patch clarifies that.

locale.5

Marko Myllynen

Describe the formats of values

locale(5) describes what a locale should define but doesn't spell out how (in what format). The patch attempts to address this, it also has few trivial additional enhancements.

* Reference to locale(7) for category descriptions.

* Clarify first_workday in NOTES a bit.

* Add upstream BZ reference for two missing LC_ADDRESS fields.

Marko

Myllynen

Fix miscoded character

resolv.conf.5

Jan Chaloupka

Add missing no-tld-query option

Based on commit [1], the no-tld-query option exists for resolv.conf configuration file. Description of this option is provided in [2]. This patch just copies this option into resolv.conf.5 man page. Plus changes 'a' member into 'an' before 'unqualified name as if it ...' on the third line of [2]. Based on [3], this option was added in glibc 2.14 as solving [4] bug.

[1] <https://sourceware.org/git/?p=glibc.git;a=commitdiff;h=f87dfb1f11c01f2ccdc40d81e134cd06b32e28e8>

[2] <http://www.daemon-systems.org/man/resolv.conf.5.html> man page.

[3]

<https://sourceware.org/git/?p=glibc.git;a=blob;f=NEWS;h=952f32af17e7fb49c4c1a305de673a13075bfaf5;hb=f87dfb1f11c01f2ccdc40d81e134cd06b32e28e8>

[4] https://sourceware.org/bugzilla/show_bug.cgi?id=12734

credentials.7

Josh Triplett

Cross-reference getgroups(2)

Since credentials.7 discusses supplementary GIDs, it should reference getgroups(2).

fanotify.7

Heinrich Schuchardt

Allow relative paths in example

The current example code requires passing an absolute path to the mount to be watched.

By passing AT_FDCWD to fanotify_mark it can use both absolute and relative paths.

Heinrich Schuchardt

fallocate(2) creates no events

fallocate(2) should create FAN_MODIFY events but does not.

Heinrich Schuchardt [Michael Kerrisk]

fanotify notifies only events generated on the same mount

Unfortunately, fanotify does not inform listeners for all paths under which a touched filesystem object is visible, but only the listener using the same path as the process touching the filesystem object.

Heinrich Schuchardt

Update BUGS

to note bugs still not fixed in 3.17

I bumped the Linux version number in the BUGS section to 3.17.

inotify.7

Heinrich Schuchardt

fallocate(2) does not trigger inotify events

Calling fallocate(2) does not result in inotify events.

locale.7

Marko Myllynen

Improve LOCPATH description

LOCPATH is ignored by privileged programs.

Add locale archive references.

Add FILES section.

man-pages.7

Michael Kerrisk [Laurent Georget]

Clarify that SEE ALSO entries may refer to pages from other projects

signal.7

Michael Kerrisk

Mention other "slow devices"

Reads from eventfd(2), signalfd(2), timerfd(2), inotify(7), and fanotify(7) file descriptors are also slow operations that are restartable.

Michael Kerrisk

Fix SO_RECVTIMEO/ SO_SENDFDTIMEO confusion in text

Michael Kerrisk

Since Linux 3.8, reads on inotify(7) file descriptors are restartable

Michael Kerrisk

inotify(7) reads no longer show the odd EINTR error after SIGCONT

Since kernel 3.7, reads from inotify(7) file descriptors no longer show the (Linux oddity) behavior of failing with EINTR when the process resumes after a stop signal + SIGCONT.

Michael Kerrisk

SEE ALSO: add sigreturn(2)

unix.7

Michael Kerrisk [Scott Harvey]

Fix buglet in code snippet in BUGS section

ld.so.8

Carlos O'Donell

Add --inhibit-cache option

The dynamic loader has 6 options, only 5 are documented.

This patch documents the sixth option i.e. `--inhibit-cache`.

Jonathan Wakely [Siddhesh Poyarekar]

Correct documentation of \$ORIGIN

As noted by Siddhesh:

The ld.so man page says:

\$ORIGIN (or equivalently \${ORIGIN})

This expands to the directory containing the application executable.

Thus, an application located

in somedir/app could be compiled with

This is incorrect since it expands to the directory containing the DSO and not the application executable. This seems like deliberate behaviour in dl-object.c, so it needs to be fixed in the man page.

See <http://stackoverflow.com/questions/26280738/what-is-the-equivalent-of-loader-path-for-rpath->

===== Changes in man-pages-3.77 =====

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Apologies if I missed anyone!

New and rewritten pages

seccomp.2

Kees Cook, Michael Kerrisk, Will Drewry [Andy Lutomirski]

New page documenting seccomp(2)

Combines documentation from prctl, in-kernel seccomp_filter.txt and dropper.c, along with details specific to the new system call.

Newly documented interfaces in existing pages

netlink.7

Stephan Mueller [Michael Kerrisk]

Add NETLINK_CRYPTO

Changes to individual pages

adjtimex.2

Laurent Georget [Richard Cochran, Jeff Epler]

Clarify the 'ppm scaling' used in struct timex

This patch makes explicit and clarifies the unit used for the fields "freq", "ppsfreq" and "stabil" in struct timex.

Michael Kerrisk [Masanari Iida]

Note that TIME_ERROR is the modern synonym for TIME_BAD

perf_event_open.2

Vince Weaver

Clarify the PERF_FLAG_FD_* flags

This change clarifies the behavior of the PERF_FLAG_FD_OUTPUT and PERF_FLAG_FD_NO_GROUP flags to perf_event_open(), and removes the related FIXME comments.

While writing tests to validate the behavior of these flags I discovered that PERF_FLAG_FD_OUTPUT has been broken

since the

2.6.35 kernel release.

prctl.2

Dave Hansen [Michael Kerrisk]

Add description of Intel MPX calls

The 3.19 kernel will have support for Intel MPX, including a pair of new prctl() calls (PR_MPX_ENABLE_MANAGEMENT and PR_MPX_DISABLE_MANAGEMENT) for enabling and disabling the kernel's management of the "bounds tables". Add a descriptions of the interface.

Michael Kerrisk

Add mention of seccomp(2) under PR_SET_SECCOMP

Michael Kerrisk

Suggest `/proc/PID/status "Seccomp"` as alternative to `PR_GET_SECCOMP`

Michael Kerrisk

`SIGKILL` can also occur `PR_GET_SECCOMP` in `SECCOMP_MODE_FILTER` mode

Kees Cook [Andy Lutomirski]

Document `SECCOMP_MODE_FILTER` vs `EFAULT`

This notes the distinction made between `EINVAL` and `EFAULT` when attempting to use `SECCOMP_MODE_FILTER` with `PR_SET_SECCOMP`.

setns.2

pid_namespaces.7

Mike Frysinger

Elaborate

discussion of the PID namespace descendant limitation

The `setns(2)` man page already mentions that `CLONE_NEWPID` may only be used with descendant namespaces, but this nuance could be listed in a few more places so it is not missed.

shmget.2

Michael Kerrisk [Akihiro Motoki]

Make wording of `SHMALL` description a little clearer

sigaction.2

Michael Kerrisk

Add `siginfo_t` fields for `SECCOMP_RET_TRAP`

memchr.3

strchr.3

Alexandre Bique

Reference `memmem(3)` in `SEE ALSO` section

memcmp.3

Michael Kerrisk [Michael Haardt]

NOTES: add some detail on avoiding `memcmp()` of cryptographic data
Wording largely based on comments from Michael Haardt.

pthread_tryjoin_np.3

Jérôme Pouiller [Michael Kerrisk]

Document `EINVAL` error for `pthread_timedjoin_np()`

mem.4

Elie De Brauer

`/dev/kmem` depends on `CONFIG_DEVMEM`

Elie De Brauer

Correct `/dev/port` group in example

`mem.4` mentions that group for `/dev/port` should be set to `'mem'`

However, all other files (`/dev/mem` and `/dev/kmem`) use the `kmem` group in their examples and on my system `/dev/port` belongs to

kmem. Hence the 'mem' group was probably a typo:

Elie De Brauwier

Add CONFIG_STRICT_DEVMEM

Since 2.6.26 the CONFIG_NONPROMISC_DEVMEM options limits the physical addresses which can be accessed through /dev/mem.

random.4

Heinrich Schuchardt

Describe handling of O_NONBLOCK

/dev/random and /dev/urandom treat O_NONBLOCK differently.

This should be described in the manpage.

Heinrich Schuchardt

Mention PRNG used by urandom

/dev/urandom uses a pseudo-random number generator to replace missing entropy.

proc.5

Michael Kerrisk

Document "Seccomp" field of /proc/PID/status

epoll.7

Michael Kerrisk [Ignat Loskutov]

Use epoll_create1() rather than

epoll_create() in the code example

epoll_create1() is more or less the preferred API for new applications, since it allows for some flags and avoids the misdesigned epoll_create() argument, and so it seems sensible to use that in the example, rather than epoll_create().

tcp.7

Troy Davis

Clarify tcp_tw_recycle on Internet-facing hosts

Clarify that tcp_tw_recycle will break communication with many general-purpose remote Internet hosts (namely, remote NAT devices) even when the Linux device itself is not behind NAT.

==== Changes in man-pages-3.78 =====

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Apologies if I missed anyone!

New and rewritten pages

execveat.2

David Drysdale, Michael Kerrisk [Rich Felker]
New page for execveat(2)

memfd_create.2

Michael Kerrisk, David Herrmann
New page for memfd_create() system call
Including notes about file sealing

s390_pci_mmio_write.2

Alexey Ishchuk
New page for s390 s390_pci_mmio_write() and s390_pci_mmio_read()
New manual page for the new PCI MMIO memory access system

calls, s390_pci_mmio_write() and s390_pci_mmio_read(),
added for the s390 platform.

Newly documented interfaces in existing pages

fcntl.2

David Herrmann [Michael Kerrisk]
Document F_ADD_SEALS and F_GET_SEALS commands

proc.5

Elie De Brauwer

Document /proc/sys/vm/compact_memory

Michael Kerrisk

Document /proc/sys/fs/nr_open

New and changed links

s390_pci_mmio_read.2

Michael Kerrisk

New link to new s390_pci_mmio_write(2) page

Changes to individual pages

dup.2

Michael Kerrisk

Add reference to RLIMIT_NOFILE for EMFILE error

Michael Kerrisk

Add reference to RLIMIT_NOFILE for EBADF error on 'newfd'.

execve.2

fexecve.3

Michael Kerrisk

SEE ALSO: add execveat(2)

fallocate.2

mmap.2

open.2

truncate.2

write.2

Michael Kerrisk

ERRORS: add EPERM for operation denied by file seal

fcntl.2

Michael Kerrisk

ERRORS: add EBUSY case for F_SETPIPE_SZ

Michael Kerrisk

Add reference to RLIMIT_NOFILE for F_DUPFD EINVAL error on 'arg'.

Michael Kerrisk

ERRORS: add open file description lock error cases

getrlimit.2

Michael Kerrisk

Update text on RLIMIT_NOFILE ceiling to refer to /proc/sys/fs/file-max

mbind.2

Michael Kerrisk [Daniel J Blueman]

Clarify EFAULT text

mmap.2

shmget.2

shm_open.3

Michael Kerrisk

SEE ALSO: add memfd_create(2)

open.2

Michael Kerrisk

Refer to RLIMIT_NOFILE for explanation of EMFILE error

Michael Kerrisk

Add execveat(2) in system call list under "Rationale for openat()"

perf_event_open.2

Vince Weaver

Clarify description of overflow events

Update the perf_event_open manpage to be more consistent when discussing overflow events. It merges the discussion of poll-type notifications with those generated by SIGIO signal handlers.

This addresses the remaining FIXMEs in the document.

Vince Weaver

Remove inaccurate paragraph describing attr.config

Remove an inaccurate paragraph about values in the attr.config field. This information was never true in any released kernel; it somehow snuck into the manpage because it is still described this way in tools/perf/design.txt in the kernel source tree.

Michael Kerrisk

Correct the kernel version number for PERF_COUNT_HW_CACHE_NODE

Michael Kerrisk

Add some kernel version numbers to various fields and constants

ptrace.2

sigaction.2

seccomp.2

Kees Cook

Ptrace and siginfo details

While writing some additional seccomp tests, I realized PTRACE_EVENT_SECCOMP wasn't documented yet. Fixed this, and added additional notes related to ptrace events SIGTRAP details.

readv.2

Michael Kerrisk

Update details
on glibc readv()/writev() wrapper behavior
And add a historical detail about Linux 2.0.

select.2

Michael Kerrisk

Mention RLIMIT_NOFILE as a possible cause of EINVAL error

syscall.2

Kees Cook

Add arm64 and mips

Add mips and arm64 to tables, along with some further
details on these architectures,

syscalls.2

Michael Kerrisk

Add s390_pci_mmio_read(2) and s390_pci_mmio_write(2)

Michael Kerrisk

Note kernel() version that introduced get_kernel_syms()

Note kernel version that introduced ppc_rtas()

Note kernel version that introduced create_module()

Note kernel version that added setup()

Michael Kerrisk

Remove some details for sync_file_range2()

Make the table a bit simpler. The details can anyway be
found in the system call man page.

utimensat.2

Michael Kerrisk [Elliot Hughes]

If both tv_sec fields are UTIME_OMIT, the file need not
exist

As noted by Elliot, if both tv_sec fields are UTIME_OMIT,
utimensat() will return success even if the file does not exist.

errno.3

Michael Kerrisk

The RLIMIT_NOFILE resource limit is a common cause of EMFILE

exec.3

Michael Kerrisk

SEE ALSO: add execveat(2)

fclose.3

Carlos O'Donell

Consistency fix: use "stream" as name for "FILE *" argument

Harmonize all the manual pages to use "stream" for FILE*
instead of randomly using "fp" or "stream." Choosing something
and being consistent helps users scan the man pages quickly

and understand what they are looking at.

fexecve.3

Michael Kerrisk

Rewrite the script+close-on-exec problem as a BUG

Also, add one or two details about this scenario.

Michael Kerrisk

The natural idiom when using fexecve() is to use the close-on-exec flag

fmemopen.3

Michael Kerrisk

Consistency fix: use "stream"
as name for "FILE *" argument

fopencookie.3

Michael Kerrisk

Consistency fix: use "stream" as name for "FILE *" argument

getgrent_r.3

Carlos O'Donell

Consistency fix: use "stream" as name for "FILE *" argument

getline.3

Michael Kerrisk

Consistency fix: use "stream" as name for "FILE *" argument

getmntent.3

Carlos O'Donell

Consistency fix: use "stream" as name for "FILE *" argument

getpw.3

Michael Kerrisk [Carlos O'Donell]

Describe return value when 'uid' is not found

getpwent_r.3

Carlos O'Donell

Consistency fix: use "stream" as name for "FILE *" argument

getspnam.3

Carlos O'Donell

Consistency fix: use "stream" as name for "FILE *" argument

malloc_info.3

Carlos O'Donell

Consistency fix: use "stream" as name for "FILE *" argument

posix_fallocate.3

Michael Kerrisk

Note that posix_fallocate() is implemented using fallocate(2)

putgrent.3

Carlos O'Donnell

Consistency

fix: use "stream" as name for "FILE *" argument

Harmonize all the manual pages to use "stream" for FILE* instead of randomly using "fp" or "stream." Choosing something and being consistent helps users scan the man pages quickly and understand what they are looking at.

locale.5

Akihiro Motoki

Correct variable name

proc.5

Michael Kerrisk

Remove bogus statement about NR_OPEN being a ceiling for file-max

==== Changes in man-pages-3.79 =====

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Apologies if I missed anyone!

New and rewritten pages

getrandom.2

Heinrich Schuchardt, Theodore T'so, Michael Kerrisk

New page documenting getrandom(2)

Kernel 3.17 introduces a new system call getrandom(2).

kexec_load.2

Vivek Goyal, Michael Kerrisk

Add documentation of kexec_file_load(2)

Michael Kerrisk, Vivek Goyal

Rewrite and extend documentation of kexec_load().

New and changed links

kexec_file_load.2

Michael Kerrisk

New link to kexec_load.2

Changes to individual pages

personality.2

Michael Kerrisk

SEE ALSO: add setarch(8)

prctl.2

Michael Kerrisk

Unused arguments of PR_MPX_{EN,DIS}ABLE_MANAGEMENT must be zero

reboot.2

Michael Kerrisk

SEE ALSO:

add kexec_load(2)

socket.2

Stephan Mueller

document AF_ALG

Add a reference to the AF_ALG protocol accessible via socket(2).

fflush.3

Michael Kerrisk [Sergey V. Zubkov]

Clarify that flushing of input streams occurs only for seekable files

See https://bugzilla.kernel.org/show_bug.cgi?id=91931

Michael Kerrisk [Sergey V. Zubkov]

POSIX.1-2008 specifies the behavior when flushing input streams

POSIX.1-2001 did not have a specification for input streams,
but POSIX.1-2008 added one.

getopt.3

Michael Kerrisk

SEE ALSO: add getopt(1)

random.3

Heinrich Schuchardt

SEE ALSO: add getrandom(2)

termios.3

Michael Kerrisk

SEE ALSO: add reset(1), setterm(1), tput(1)

tzset.3

J William Piggott

Document behavior when TZ filespec omits the colon

If the TZ filespec omits the leading colon, glibc will parse
it for any valid format, i.e., it will

still work.

J William Piggott

Add description for posixrules file

J William Piggott

Correct system timezone file path

J William Piggott

There are only two TZ formats

tzset(3) currently states that there are three TZ formats. The
first two it lists are actually variations of the POSIX-style
TZ format, of which there are at least five variations.

This patch corrects this to match the POSIX specification of
TZ having only two formats.

J William Piggott

Filespec omitted incorrect

Paragraph three of the DESCRIPTION section says
that when TZ is set, but empty, then UTC is used.

Later it says if the TZ filespec is omitted then the file
/usr/share/zoneinfo/localtime is used. This is incorrect,
it will use UTC in that case as well.

J William Piggott

Fix incorrect TZ string representation

The TZ string

representation indicates that the start/end
rules are required; this is incorrect.

J William Piggott

Add ENVIRONMENT section + other rearrangements

FILES section was overly verbose and included environment variables. Added ENVIRONMENT section, removing ENV VARS from the FILES section.

random.4

Heinrich Schuchardt

SEE ALSO: add getrandom(2)

passwd.5

Michael Kerrisk

SEE ALSO: add chfn(1), chsh(1)

capabilities.7

Michael Kerrisk

SEE ALSO: add setpriv(1)

signal.7

Michael Kerrisk

Add getrandom(2) to list of restartable system calls

Michael Kerrisk

Add F_OFD_SETLKW to list of restartable operations

==== Changes in man-pages-3.80 =====

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Apologies if I missed anyone!

New and rewritten pages

ioctl_fat.2

Heinrich Schuchardt [Michael Kerrisk]

New man page for the ioctl(2) FAT API

The ioctl(2) system call may be used to retrieve information about the FAT file system and to set file attributes.

madvise.2

Michael Kerrisk

Summary: this page has been significantly reorganised and rewritten

Michael Kerrisk

Recast discussion of 'advice' into two groups of values

madvise() is one of those system calls that has congealed over time, as has the man page. It's helpful to split the discussion of 'advice' into those

flags into two groups:

* Those flags that are (1) widespread across implementations;

(2) have counterparts in `posix_madvise(3)`; and (3) were present in the initial Linux `madvise` implementation.

* The rest, which are values that (1) may not have counterparts in other implementations; (2) have no counterparts in `posix_madvise(3)`; and (3) were added to Linux in more recent times.

Michael Kerrisk

Explicitly list the five flags provided by `posix_fadvise()`

Over time, bit rot has afflicted this page. Since the original text was written many new Linux-specific flags have been added.

So, now it's better to explicitly list the flags that correspond to the POSIX analog of `madvise()`.

Jan Chaloupka [Hugh Dickins, Michael Kerrisk]

Starting with Linux 3.5, more file systems support `MADV_REMOVE`

Michael Kerrisk

Split `EINVAL`

error into separate cases

Michael Kerrisk

Explain `MADV_REMOVE` in terms of file hole punching

Michael Kerrisk

`MADV_REMOVE` can be applied only to shared writable mappings

Michael Kerrisk

`MADV_REMOVE` cannot be applied to locked or Huge TLB pages

Michael Kerrisk [Vlastimil Babka]

Clarify that `MADV_DONTNEED` has effect on pages only if it succeeds

Michael Kerrisk [Vlastimil Babka]

Clarifications for `MADV_DONTNEED`

Michael Kerrisk [Michal Hocko]

Improve `MADV_DONTNEED` description

Michael Kerrisk

`MADV_DONTNEED` cannot be applied to Huge TLB or locked pages

Michael Kerrisk [Vlastimil Babka]

Remove mention of "shared pages" as a cause of `EINVAL` for `MADV_DONTNEED`

Michael Kerrisk [Vlastimil Babka]

Note Huge TLB as a cause of `EINVAL` for `MADV_DONTNEED`

Michael Kerrisk [Minchan Kim]

Add mention of `VM_PFNMAP` in discussion of `MADV_DONTNEED` and `MADV_REMOVE`

Michael Kerrisk

Drop sentence saying that kernel may ignore 'advice'

The sentence creates misunderstandings, and does not really add information.

Michael Kerrisk

Note that some Linux-specific 'advice' change memory-access semantics

Michael Kerrisk

NOTES: Remove crufty text about "command" versus "advice"

The point made in this fairly ancient text is more or less evident from the `DESCRIPTION`, and it's not clear what "standard" is being

referred to.

Michael Kerrisk

Mention POSIX.1-2008 addition of POSIX_MADV_NOREUSE

Michael Kerrisk

Remove "POSIX.1b" from CONFORMING TO

Michael Kerrisk

Move mention of posix_fadvise() from CONFORMING TO to SEE ALSO

Michael Kerrisk

ERRORS: add EPERM error case for MADV_HWPOISON

Michael Kerrisk

Note that madvise() is nonstandard, but widespread

Newly documented interfaces in existing pages

proc.5

Michael Kerrisk

(Briefly) document /proc/PID/attr/socketcreate

Michael Kerrisk

(Briefly) document /proc/PID/attr/keycreate

Michael Kerrisk [Stephen Smalley]

Document /proc/PID/attr/{current,exec,fscreate,prev }

Heavily based on Stephen Smalley's text in

<https://lwn.net/Articles/28222/>

From: Stephen Smalley <sds@epoch.ncsc.mil>

To: LKML and others

Subject: [RFC][PATCH] Process Attribute API for Security Modules

Date: 08 Apr 2003 16:17:52 -0400

Michael Kerrisk

Document /proc/sys/kernel/auto_msgmni

socket.7

David Wilson [Michael Kerrisk]

Document SO_REUSEPORT socket option

New and changed links

get_thread_area.2

Andy Lutomirski

Make get_thread_area.2 a link to rewritten set_thread_area.2 page

Changes to individual pages

time.1

Michael Kerrisk

Make option argument formatting consistent with other pages

access.2

Denys Vlasenko

Explain how access() check treats capabilities

We have users who are terribly confused why their binaries with CAP_DAC_OVERRIDE capability see EACCESS from access() calls, but are able to read the file.

The reason is access() isn't the "can I read/write/execute this file?" question, it is the "(assuming that I'm a setuid binary,) can *the user who invoked me* read/write/execute this file?" question.

That's why it uses real UIDs as documented, and why it ignores capabilities when capability-endorsed binaries are run by non-root (this patch adds this information).

To make users more likely to notice this less-known detail, the patch expands the explanation with rationale for this logic into a separate paragraph.

arch_prctl.2

set_thread_area.2

get_thread_area.2

Andy Lutomirski

Improve TLS documentation

The documentation for set_thread_area was very vague. This improves it, accounts for recent kernel changes, and merges it with get_thread_area.2.

get_thread_area.2 now becomes a link.

While I'm at it, clarify the related arch_prctl.2 man page.

cacheflush.2

Ralf Baechle

Update some portability details and bugs

Michael Kerrisk

Refer reader to BUGS in discussion of EINVAL error

capget.2

Michael Kerrisk

Document V3 capabilities constants

Michael Kerrisk

Rewrite discussion of kernel versions that support file capabilities

File capabilities ceased to be optional in Linux 2.6.33.

clone.2

Peng Haitao

Fix description of CLONE_PARENT_SETTID

CLONE_PARENT_SETTID only stores child thread ID in parent memory.

clone.2

execve.2

Kevin Easton

Document interaction

of execve(2) with CLONE_FILES

This patch the fact that a successful execve(2) in a process that is sharing a file descriptor table results in unsharing the table.

I discovered this through testing and verified it by source inspection - there is a call to unshare_files() early in do_execve_common().

fcntl.2

Michael Kerrisk [Jeff Layton]

Clarify cases of conflict between traditional record and OFD locks

Verified by experiment on Linux 3.15 and 3.19rc4.

fork.2

Michal Hocko

EAGAIN is not reported when task allocation fails

I am not sure why we have:

"EAGAIN fork() cannot allocate sufficient memory to copy the parent's page tables and allocate a task structure or the child."

The text seems to be there from the time when man-pages were moved to git so there is no history for it.

And it doesn't

reflect reality: the kernel reports both

dup_task_struct and dup_mm failures as ENOMEM to the userspace. This seems to be the case from early 2.x times so let's simply remove this part.

Heinrich Schuchardt

Child and parent run in separate memory spaces

fork.2 should clearly point out that child and parent process run in separate memory spaces.

Michael Kerrisk

NOTES: add "C library/kernel ABI differences" subheading

getpid.2

Michael Kerrisk

NOTES: add "C library/kernel ABI differences" subheading

getxattr.2

Michael Kerrisk

Various rewordings plus one or two details clarified

Michael Kerrisk

Add pointer to example in listxattr(2)

killpg.2

Michael Kerrisk

NOTES: add "C library/kernel ABI differences" subheading

listxattr.2

Heinrich Schuchardt

Provide example program

Michael Kerrisk

Reword discussion of size==0 case

Michael

Kerrisk

Add note on handling increases in sizes of keys or values

Michael Kerrisk

Remove mention of which filesystems implement ACLs

Such a list will only become outdated (as it already was).

migrate_pages.2

Jan Stancek

Document EFAULT and EINVAL errors

I encountered these errors while writing testcase for migrate_pages syscall for LTP (Linux test project).

I checked stable kernel tree 3.5 to see which paths return these.

Both can be returned from get_nodes(), which is called from:

```
SYSCALL_DEFINE4(migrate_pages, pid_t, pid, unsigned long, maxnode,  
                const unsigned long __user *, old_nodes,  
                const unsigned long __user *, new_nodes)
```

The testcase does following:

EFAULT

a) old_nodes/new_nodes is area mmaped with PROT_NONE

b) old_nodes/new_nodes is area not mmaped in process address

space, -1 or area that has been just munmmaped

EINVAL

a) maxnodes overflows kernel limit

b) new_nodes contain node, which has no memory or does not exist

or is not returned for `get_mempolicy(MPOL_F_MEMS_ALLOWED)`.

modify_ldt.2

Andy Lutomirski

Overhaul the documentation

This clarifies the behavior and documents all four functions.

Andy Lutomirski

Clarify the `lm` bit's behavior

The `lm` bit should never have existed in the first place. Sigh.

mprotect.2

Mark Seaborn

Mention effect of `READ_IMPLIES_EXEC` personality flag

I puzzled over `mprotect()`'s effect on `/proc/*/maps` for a while yesterday -- it was setting "x" without `PROT_EXEC` being specified.

Here is a patch to add some explanation.

msgget.2

Michael Kerrisk

Add details of `MSGMNI` default value

msgop.2

Michael Kerrisk

Clarify wording of `MSGMAX` and `MSGMNB`

limits

perf_event_open.2

Vince Weaver

Clarify `PERF_EVENT_IOC_REFRESH` behavior

Currently the `PERF_EVENT_IOC_REFRESH` ioctl, when applied to a group leader, will refresh all children. Also if a refresh value of 0 is chosen then the refresh becomes infinite (never runs out).

Back in 2011 PAPI was relying on these behaviors but I was told that both were unsupported and subject to being removed at any time.

(See <https://lkml.org/lkml/2011/5/24/337>)

However the behavior has not been changed.

This patch updates the manpage to still list the behavior as unsupported, but removes the inaccurate description of it only being a problem with 2.6 kernels.

prctl.2

Michael Kerrisk [Bill McConnaughey]

Mention file capabilities in discussion of `PR_SET_DUMPABLE`

Michael Kerrisk

Greatly expand discussion of "dumpable" flag

In particular,

detail the interactions with

/proc/sys/fs/suid_dumpable.

Michael Kerrisk

Reorder paragraphs describing PR_SET_DUMPABLE

Michael Kerrisk

Mention SUID_DUMP_DISABLE and SUID_DUMP_USER under PR_SET_DUMPABLE

Michael Kerrisk

Executing a file with capabilities also resets the parent death signal

ptrace.2

James Hunt

Explain behaviour should ptrace tracer call execve(2)

This behaviour was verified by reading the kernel source and confirming the behaviour using a test program.

Denys Vlasenko

Add information on PTRACE_SEIZE versus PTRACE_ATTACH differences

Extend description of PTRACE_SEIZE with the short summary of its differences from PTRACE_ATTACH.

The following paragraph:

PTRACE_EVENT_STOP

Stop induced by PTRACE_INTERRUPT command, or group-stop, or initial ptrace-stop when a new child is attached (only if attached using PTRACE_SEIZE), or PTRACE_EVENT_STOP if PTRACE_SEIZE was used.

has an editing error (the part after last comma makes no sense).

Removing it.

Mention that legacy post-execve SIGTRAP is disabled by PTRACE_SEIZE.

sched_setattr.2

Michael Kerrisk [Christophe Blaess]

SYNOPSIS: remove 'const' from 'attr' sched_getattr() argument

semget.2

Michael Kerrisk

Note default value for SEMMNI and SEMMSL

semop.2

Michael Kerrisk

Note defaults for SEMOPM and warn against increasing > 1000

sendfile.2

Eric Wong

Caution against modifying sent pages

setxattr.2

Michael Kerrisk

ERRORS: add ENOTSUP for invalid namespace prefix

Michael Kerrisk

Remove redundant text under ENOTSUP error

Michael Kerrisk

Note that zero-length attribute values are permitted

Michael Kerrisk

Rework text describing 'flags' argument

stat.2

Michael Kerrisk

NOTES:

add "C library/kernel ABI differences" subheading

statfs.2

Michael Kerrisk [Jan Chaloupka]

Document the 'f_flags' field added in Linux 2.6.36

Michael Kerrisk

Clarify that 'statfs' structure has some padding bytes

The number of padding bytes has changed over time, as some bytes are used, so describe this aspect of the structure less explicitly.

Tao Ma

Add OCFS2_SUPER_MAGIC

Michael Kerrisk

Use __fsword_t in statfs structure definition

This more closely matches modern glibc reality.

Michael Kerrisk

Add a note on the __fsword_t type

Michael Kerrisk

Document 'f_spare' more vaguely

wait.2

Michael Kerrisk

Note that waitpid() is a wrapper for wait4()

Michael Kerrisk

Note that wait() is a library function implemented via wait4()

wait4.2

Michael Kerrisk

NOTES: add "C library/kernel ABI differences" subheading

encrypt.3

Rob Somers

Improve code example

I (and some others) found that the original example code did not seem to work as advertised. The new code (used by permission of the original author, Jens Thoms Toerring)

was found on comp.os.linux.development.

mktemp.3

Luke Faraone

DESCRIPTION reference to BUGS corrected

mktemp(3)'s DESCRIPTION referenced NOTES, but no such section exists. Corrected to refer to BUGS.

pthread_attr_setschedparam.3

Tobias Herzke

Describe EINVAL in ERRORS

resolver.3

host.conf.5

Simon Paillard

host.conf 'order' option deprecated, replaced by nsswitch.conf(5)

http://www.sourceware.org/bugzilla/show_bug.cgi?id=2389

<http://repo.or.cz/w/glibc.git/commit/b9c65d0902e5890c4f025b574725154032f8120a>

Reported at <http://bugs.debian.org/270368>,

<http://bugs.debian.org/396633>, and <http://bugs.debian.org/344233>.

statvfs.3

Michael

Kerrisk

Document missing 'f_flag' bit values

And reorganize information relating to which flags are in POSIX.1.

Michael Kerrisk [Jan Chaloupka]

statvfs() now populates 'f_flag' from statfs()'s f_flag field

These changes came with glibc 2.13, and the kernel's addition of a 'f_flags' field in Linux 2.6.36.

syslog.3

Michael Kerrisk [Doug Goldstein]

Remove unneeded <stdarg.h>

vsyslog() does not need this.

tzset.3

J William Piggott

Add offset format

tzset.3 does not illustrate the POSIX offset format.

Specifically, there is no indication in the manual

what the optional components of it are.

random.4

Michael Kerrisk

Note maximum number of bytes returned by read(2) on /dev/random

Michael Kerrisk [Mathieu Malaterre]

Since Linux 3.16, reads from /dev/urandom return at most 32 MB

See <https://bugs.debian.org/775328>

and

https://bugzilla.kernel.org/show_bug.cgi?id=80981#c9

core.5

Michael Kerrisk [Bill McConnaughey]

Executing a file that has capabilities also prevents core dumps

Michael Kerrisk

Document "%i" and "%I" core_pattern specifiers

intro.5

Michael Kerrisk

Remove words "and protocols"

There are no protocol descriptions in Section 5. Protocols are in Section 7.

proc.5

Michael Kerrisk

Add reference to prctl(2) in discussion of /proc/sys/fs/suid_dumpable

And note that /proc/sys/fs/suid_dumpable defines the value assigned to the process "dumpable" flag in certain circumstances.

Michael Kerrisk

Note that CAP_SYS_ADMIN is required to list /proc/PID/map_files

This might however change in the future; see the Jan 2015 LKML thread:

Re: [RFC][PATCH v2] procfs: Always expose /proc/<pid>/map_files/

and make it readable

resolv.conf.5

Michael Kerrisk

SEE ALSO: add nsswitch.conf(5)

capabilities.7

Michael Kerrisk

Mention SECBIT_KEEP_CAPS as an alternative to prctl() PR_SET_KEEPCAPS

Chris Mayo

NOTES: add last kernel versions for obsolete options

The CONFIG_SECURITY_CAPABILITIES option was removed by commit 5915eb53861c5776cfec33ca4fcc1fd20d66dd27

The CONFIG_SECURITY_FILE_CAPABILITIES option removed in Linux 2.6.33 as already mentioned in DESCRIPTION.

pthreads.7

Michael Kerrisk

SEE ALSO: add fork(2)

unix.7

Jan Chaloupka

Mention SOCK_STREAM socket for ioctl_type of ioctl()
from https://bugzilla.redhat.com/show_bug.cgi?id=1110401.

unix.7 is not clear about socket type of ioctl_type argument of
ioctl() function. The description of SIOCINQ is applicable only
for SOCK_STREAM socket. For SOCK_DGRAM, udp(7) man page gives

correct description of SIOCINQ

ldconfig.8

Michael Kerrisk

Place options in alphabetical order

Michael Kerrisk

Note glibc version number for '-l' option

Michael Kerrisk

Document -c/--format option

Michael Kerrisk

Add long form of some options

Michael Kerrisk [Patrick Horgan]

ld.so.conf uses only newlines as delimiters
mtk: confirmed by reading source of parse_conf() in
elf/ldconfig.c.

Michael Kerrisk

Document -V/--version option

Michael Kerrisk

Document -i/--ignore-aux-cache option

ld.so.8

Michael Kerrisk

Relocate "Hardware capabilities" to be a subsection under notes
This is more consistent with standard man-pages headings
and layout.

Michael Kerrisk

(Briefly) document LD_TRACE_PRELINKING

Michael Kerrisk

Remove duplicate description of LD_BIND_NOT

==== Changes in man-pages-3.81 =====

Released:

2015-03-02, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

Alexandre Oliva <aoliva@redhat.com>
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Michael Kerrisk <mtk.manpages@gmail.com>
Peng Haitao <penght@cn.fujitsu.com>

Apologies if I missed anyone!

New and rewritten pages

attributes.7

Alexandre Oliva, Michael Kerrisk [Carlos O'Donnell]
New page describing POSIX safety concepts

Global changes

Many pages

Peng Haitao, Michael Kerrisk
Reformat existing thread-safety information to use a tabular format, rather than plain text.

Changes to individual pages

mmap.2

Ma Shimiao
ATTRIBUTES: Note functions that are thread-safe
The function mmap() and munmap() are thread safe.

a64l.3

Ma Shimiao
Modify thread-safety information
As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

acos.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function acos(), acosf() and acosl() are thread safe.

acosh.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function acosh(), acoshf() and acoshl() are thread safe.

addseverity.3

Ma Shimiao

ATTRIBUTES: Note function is thread-safe

The function addseverity() is thread safe.

aio_cancel.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function aio_cancel() is thread safe.

aio_fsync.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function aio_fsync() is thread safe.

aio_read.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function aio_read() is thread safe.

aio_suspend.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function aio_suspend() is thread safe.

aio_write.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function aio_write() is thread safe.

argz_add.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

asin.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `asin()`, `asinf()` and `asinl()` are thread safe.

`assert.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

`assert_perror.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

`atan2.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `atan2()`, `atan2f()` and `atan2l()` are thread safe.

`atanh.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `atanh()`, `atanhf()` and `atanhl()` are thread safe.

`backtrace.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The markings match glibc markings.

`btowc.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function `btowc()` in glibc is thread safe.

Its marking matches glibc marking.

`cabs.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `cabs()`, `cabsf()` and `cabsl()` are thread safe.

`cacos.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `cacos()`, `cacosf()` and `cacosl()` are thread safe.

`cacosh.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions `cacosh()`, `cacoshf()` and `cacoshl()` in glibc are

thread safe. Its markings match glibc markings.

canonicalize_file_name.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The functions canonicalize_file_name() in glibc is thread safe.

Its marking matches glibc marking.

carg.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function carg(), cargf() and cargl() are thread safe.

casin.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions casin(), casinl() and casinl() are thread safe.

Their markings match glibc markings.

casinh.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions casinh(), casinhl() and casinhl() in glibc are

thread safe. Its markings match glibc markings.

catan.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions catan(), catanf() and catanl() are thread safe.

Their markings match glibc markings.

catanh.3

Ma Shimiao

ATTRIBUTES: Note functions

that are thread-safe

The functions catanh(), catanhf() and catanhl() in glibc are

thread safe. Its markings match glibc markings.

catopen.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions catopen() and catclose() are thread safe.

cfree.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function cfree() in glibc is thread safe.

Its marking matches glibc marking.

clog10.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions `clog10()`, `clog10f()` and `clog10l()` in glibc are thread safe. Its markings match glibc markings.

clog.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `clog()`, `clogf()` and `clogl()` are thread safe.

closedir.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function `closedir()` in glibc is thread safe.

Its marking matches glibc marking.

confstr.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function `confstr()` is thread safe.

cosh.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions `cosh()`, `coshf()` and `coshl()` in glibc are thread safe.

Its markings match glibc markings.

cpow.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions `cpow()`, `cpowf()` and `cpowl()` in glibc are thread safe.

Its markings match glibc markings.

crypt.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the

thread-safety information to be the same as glibc manual.

ctermid.3

Ma Shimiao

Modify thread-safety information

According to the change of source code, `ctermid`'s level has been

changed from MT-Unsafe to MT-Safe. After modifying,

the marking

matches the glibc marking.

drand48.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

drand48_r.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

ecvt.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be same as glibc manual.

ecvt_r.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The markings match glibc markings.

encrypt.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

envz_add.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The markings match glibc markings.

exec.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions execl(), execlp(), execl(), execv(), execvp() and execvpe() are thread safe.

exit.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

exp10.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

exp2.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function exp2(), exp2f() and exp2l() are thread safe.

exp.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function exp(), expf() and expl() are thread safe.

fclose.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The function fclose() is thread safe.

Its marking matches glibc marking.

fcloseall.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

fgetc.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The markings match glibc markings.

fgetwc.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The markings match glibc markings.

fgetws.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches glibc marking.

fmod.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function fmod(), fmodf() and fmodl() are thread safe.

fnmatch.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function fnmatch() is thread safe with exceptions.

fopen.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The markings match glibc markings.

fopencookie.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches glibc marking.

fread.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions fread() and fwrite() are thread safe.

gamma.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions gamma(), gammaf() and gammal() are not thread safe.

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getcontext.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getcwd.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions getcwd(), getwd() and get_current_dir_name() are thread safe.

getdate.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getenv.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions `getenv()` and `secure_getenv()` are thread safe.

`getfsent.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions `setfsent()`, `getfsent()`, `endfsent()`, `getfsspec()` and `getfsfile()` are not thread safe.

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

`getgrent.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

`getgrnam.3`

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

`getgrouplist.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `getgrouplist()` is thread safe with exceptions.

`getlogin.3`

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

`getopt.3`

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions `getopt()`, `getopt_long()` and `getopt_long_only()` are not thread safe.

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getpass.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getpwent.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

getpwnam.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

gets.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

getw.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions getw() and putw() are thread safe.

gnu_get_libc_version.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions gnu_get_libc_version() and gnu_get_libc_release() are thread safe.

hsearch.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

iconv.3

Peng Haitao

Modify thread-safety information

inet.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions `inet_aton()` and `inet_addr()` are thread safe with exceptions.

The functions `inet_network()`, `inet_ntoa()`, `inet_makeaddr()`, `inet_lnaof()` and `inet_netof()` are thread safe.

Modify thread-safety information

After researching and talking,

we think `inet_network()` and

`inet_ntoa()` should be marked with locale.

After changing, the markings match glbc markings.

`inet_pton.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `inet_pton()` is thread safe with exceptions.

`iswdigit.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswdigit()` is thread safe with exceptions.

`iswgraph.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswgraph()` is thread safe with exceptions.

`iswlower.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswlower()` is thread safe with exceptions.

`iswprint.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswprint()` is thread safe with exceptions.

`iswpunct.3`

Peng

Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswpunct()` is thread safe with exceptions.

`iswspace.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswspace()` is thread safe with exceptions.

`iswupper.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswupper()` is thread safe with exceptions.

`iswxdigit.3`

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `iswxdigit()` is thread safe with exceptions.

`j0.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `j0()`, `j1f()` `jnl()` and so on are thread safe.

`lio_listio.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

`log10.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `log10()`, `log10f()` and `log10l()` are thread safe.

`log2.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `log2()`, `log2f()` and `log2l()` are thread safe.

`log.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `log()`, `logf()` and `logl()` are thread safe.

`makecontext.3`

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

`makedev.3`

Peng Haitao

ATTRIBUTES: Note macros that are thread-safe

The macros `makedev()`, `major()` and `minor()` are thread safe.

`malloc.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function `malloc()`, `free()`, `calloc()` and `realloc()` are

thread safe.

mblen.3

Ma Shimiao

Modify thread-safety information

As annotation in

glibc manual is more detailed, change the

thread-safety information to be the same as glibc manual.

mbstowcs.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches glibc marking.

mbtowc.3

Peng Haitao

ATTRIBUTES: Note function that is not thread-safe

The function mbtowc() is not thread safe.

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the

thread-safety information to be the same as glibc manual.

mktemp.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function mktemp() is thread safe.

mtrace.3

Peng Haitao

ATTRIBUTES: Note functions that are not thread-safe

The functions mtrace() and muntrace() are not thread safe.

nan.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The markings match glibc markings.

nl_langinfo.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function nl_langinfo() is thread safe with exceptions.

opendir.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The markings match glibc markings.

pow10.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function pow10(), pow10f() and pow10l() are thread safe.

pow.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function pow(), powf() and powl() are thread safe.

pthread_setcancelstate.3

Michael Kerrisk

Add async-signal-safety information

ptsname.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

putenv.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-unsafe

The function putenv() is thread unsafe.

puts.3

Peng Haitao

ATTRIBUTES: Note functions that are thread-safe

The functions fputs(), fputc(), putc(), putchar() and puts() are thread safe.

putwchar.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches glibc marking.

qecvt.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be same as glibc manual.

rand.3

Peng Haitao

ATTRIBUTES: Note macros that are thread-safe

The functions rand(), rand_r() and srand() are thread safe.

random_r.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

readdir.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be same as glibc manual.

realpath.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches glibc marking.

regex.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions regcomp() and regexec() are thread safe with exceptions.

The functions regerror() and regfree() are thread safe.

remainder.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The markings match glibc markings.

scalb.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function scalb(), scalbf() and scalbl() are thread safe.

setenv.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-unsafe

The function setenv() and unsetenv() are thread unsafe.

siginterrupt.3

Ma Shimiao

Modify thread-safety information

As annotation

in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

sigset.3

Peng Haitao

ATTRIBUTES: Note macros that are thread-safe

The functions sigset(), sighold(), sigrelse() and sigignore() are thread safe.

sinh.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function sinh(), sinhf() and sinhl() are thread safe.

sqrt.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The function sqrt(), sqrtf() and sqrtl() are thread safe.

stdarg.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

stdio_ext.3

Ma Shimiao

Modify thread-safety information

Change the thread safety information to be the same as glibc.

strcasemp.3

Peng Haitao

ATTRIBUTES:

Note functions that are thread safe with exceptions

The functions strcasemp() and strncasemp() are thread safe with exceptions.

strerror.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be the same as glibc manual.

strfmon.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its marking matches glibc marking.

strfry.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe

The function strfry() is thread safe.

strftime.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions
The function strftime() is thread safe with exceptions.

strptime.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions
The function strptime() is thread safe with exceptions.

strtok.3

Ma Shimiao

Modify thread-safety

information

As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

strverscmp.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function strverscmp() is thread safe.

strxfrm.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

syslog.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions
The functions openlog() and closelog() are thread safe.
The functions syslog() and vsyslog() are thread safe with
exceptions.

tempnam.3

Peng Haitao

ATTRIBUTES: Note function that is thread-safe
The function tempnam() is thread safe.

termios.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the
thread-safety information to
be the same as glibc manual.

Ma Shimiao

Modify thread-safety information

As this is man page for Linux, we don't need thread safety information for bsd

tgamma.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions `tgamma()`, `tgammaf()` and `tgammal()` in glibc are thread safe. Its markings match glibc markings.

timegm.3

Peng Haitao

ATTRIBUTES: Note functions that are thread safe with exceptions

The functions `timelocal()` and `timegm()` are thread safe with exceptions.

tmpfile.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

Its markings match glibc markings.

tmpnam.3

Peng Haitao

Modify thread-safety information

When the argument `s` is `NULL`, `tmpnam()` should be `MT-Unsafe`.

toupper.3

Ma Shimiao

Modify thread-safety information

After researching and talking, we think `toupper()` and `tolower()` should not be marked with `locale`.

After changing, the markings match glibc markings.

tsearch.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The functions' markings match glibc markings.

ttyname.3

Ma Shimiao

Modify thread-safety information

As annotation in glibc manual is more detailed, change the thread-safety information to be same as glibc manual.

tzset.3

Peng Haitao

ATTRIBUTES: Note function that is thread safe with exceptions

The function `tzset()` is thread safe with exceptions.

wcsdup.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
Its marking matches glibc marking.

wctomb.3

Ma Shimiao

Modify thread-safety information
As annotation in glibc manual is more detailed, change the
thread-safety information to be the same as glibc manual.

y0.3

Ma Shimiao

ATTRIBUTES: Note functions
that are thread-safe
The function y0(), y1f() ynl() and so on are thread safe.

man-pages.7

Michael Kerrisk

Refer reader to attributes(7) for details of ATTRIBUTES section

Michael Kerrisk

SEE ALSO: add attributes(7)

pthread.7

Michael Kerrisk

SEE ALSO: add attributes(7)

standards.7

Michael Kerrisk

SEE ALSO: add attributes(7)

==== Changes in man-pages-3.82 =====

Released: 2015-03-29, Paris

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New
and rewritten pages

nptl.7

Michael Kerrisk

New page with details of the NPTL POSIX threads implementation

Newly documented interfaces in existing pages

user_namespaces.7

Changes to individual pages

intro.1

Stéphane Aulery

Prompt is not % but \$

Stéphane Aulery

Various improvements

- Add reference to other common shells dash(1), ksh(1)
- Add a reference to stdout(3)
- Separate cp and mv descriptions
- Add examples of special cases of cd
- Add su(1) and shutdown(8) references for section Logout and poweroff
- Move Control-D to section Logout and poweroff
- Fix some little formatting errors

Stéphane Aulery

Add cross references cited

Stéphane Aulery

Order SEE ALSO section

clone.2

Josh Triplett

Document that clone() silently ignores CLONE_PID and CLONE_STOPPED

Normally, system calls return EINVAL for flags they don't support.

Explicitly document that clone does **not** produce an error for these two obsolete flags.

Michael Kerrisk

Small rewording of explanation of clone() wrt threads

Clone has so many effects that it's an oversimplification to say that the **main** use of clone is to create a thread. (In fact, the use of clone() to create new processes may well be more common, since glibc's fork() is a wrapper that calls clone().)

getgroups.2

Michael Kerrisk [Shawn Landden]

Add discussion of NPTL credential-changing mechanism

At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its

credentials, all other threads change

credentials to the same values. By this means, the NPTL

implementation conforms to the POSIX requirement that the threads

in a process share credentials.

Michael Kerrisk

ERRORS: add EPERM for the case where /proc/PID/setgroups is "deny"

Michael Kerrisk

Note capability associated with EPERM error for setgroups(2)

Michael Kerrisk

Refer reader to user_namespaces(7) for discussion of /proc/PID/setgroups

The discussion of /proc/PID/setgroups has moved from
proc(5) to user_namespaces(7).

getpid.2

Michael Kerrisk

Note that getpid() returns 0 if parent is in different PID namespace

getsockopt.2

Konstantin Shemyak

Note RETURN VALUE details when netfilter is involved

ioctl_list.2

Heinrich Schuchardt

SEE ALSO ioctl_fat.2

Add FAT_IOCTL_GET_VOLUME_ID

SEE ALSO ioctl_fat.2

Heinrich Schuchardt

include/linux/ext2_fs.h

Include linux/ext2_fs.h does not contain any ioctl definitions
anymore.

Request codes EXT2_IOC* have been replaced by FS_IOC* in
linux/fs.h.

Some definitions of FS_IOC_* use long* but the actual code expects
int* (see fs/ext2/ioctl.c).

msgop.2

Bill Pemberton

Remove EAGAIN as msgrcv() errno

The list of errnos for msgrcv() lists both EAGAIN and ENOMSG as
the errno for no message available with the IPC_NOWAIT flag.

ENOMSG is the errno that will be set.

Bill Pemberton

Add an example program

open.2

Michael Kerrisk [Jason Vas Dias]

Mention blocking semantics for FIFO opens

See https://bugzilla.kernel.org/show_bug.cgi?id=95191

seccomp.2

Jann Horn [Kees Cook, Mikael Pettersson, Andy Lutomirski]

Add note about alarm(2) not being sufficient to limit runtime

Jann Horn

Explain blacklisting

problems, expand example

Michael Kerrisk [Kees Cook]

Add mention of libseccomp

setgid.2

Michael Kerrisk

Clarify that setgid() changes all GIDs when caller has CAP_SETGID

Michael Kerrisk [Shawn Landden]

Add discussion of NPTL credential-changing mechanism

At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its credentials, all other threads change credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

setresuid.2

Michael Kerrisk [Shawn Landden]

Add discussion of NPTL credential-changing mechanism

At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread

changes its credentials, all other threads change

credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

setreuid.2

Michael Kerrisk [Shawn Landden]

Add discussion of NPTL credential-changing mechanism

At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its credentials, all other threads change credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

Michael Kerrisk

SEE ALSO: add credentials(7)

setuid.2

Michael Kerrisk

Clarify that setuid() changes all UIDs when caller has CAP_SETUID

Michael Kerrisk [Shawn Landden]

Add discussion of NPTL

credential-changing mechanism

At the kernel level, credentials (UIDs and GIDs) are a per-thread attribute. NPTL uses a signal-based mechanism to ensure that when one thread changes its credentials, all other threads change credentials to the same values. By this means, the NPTL implementation conforms to the POSIX requirement that the threads in a process share credentials.

sigaction.2

Michael Kerrisk

Add discussion of `rt_sigaction(2)`

Michael Kerrisk

Note treatment of signals used internally by NPTL

The glibc wrapper gives an `EINVAL` error on attempts to change the disposition of either of the two real-time signals used by NPTL.

sigpending.2

Michael Kerrisk

Add discussion of `rt_sigpending(2)`

sigprocmask.2

Michael Kerrisk

Add discussion of `rt_sigprocmask(2)`

Michael Kerrisk

Note treatment of signals used internally by NPTL

The glibc wrapper silently ignores attempts to block the two real-time signals used by NPTL.

sigreturn.2

Michael Kerrisk

Add discussion of `rt_sigreturn(2)`

sigsuspend.2

Michael Kerrisk

Add discussion of `rt_sigsuspend(2)`

sigwaitinfo.2

Michael Kerrisk

Note treatment of signals used internally by NPTL

The glibc wrappers silently ignore attempts to wait for signals used by NPTL.

Michael Kerrisk

Add discussion of `rt_sigtimedwait(2)`

socket.2

Heinrich Schuchardt

SEE ALSO close(2)

The description mentions close(2). Hence it should also be referenced in the SEE ALSO section.

syscall.2

Jann Horn

Add x32 ABI

umount.2

Eric W. Biederman

Document the effect of shared subtrees on umount(2)

Eric W. Biederman

Correct the description of MNT_DETACH

I recently realized that I had been reasoning improperly about what umount(MNT_DETACH)

did based on an insufficient description

in the umount.2 man page, that matched my intuition but not the implementation.

When there are no submounts, MNT_DETACH is essentially harmless to applications. Where there are submounts, MNT_DETACH changes what is visible to applications using the detach directories.

Michael Kerrisk

Move "shared mount + umount" text to a subsection in NOTES

aio_return.3

Stéphane Aulery

Document the return value on error

Reported by Alexander Holler <holler@ahsoftware.de>

clock.3

Stéphane Aulery

CLOCKS_PER_SEC = 1000000 is required by XSI, not POSIX

Debian Bug #728213 reported by Tanaka Akira <akr@fsij.org>

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=728213>

dlopen.3

Michael Kerrisk

Amend error in description of dlclose() behavior

The current text says that unloading depends on

whether

the reference count falls to zero *and no other libraries are using symbols in this library*. That latter text has been there since man-pages-1.29, but it seems rather dubious.

How could the implementation know whether other libraries are still using symbols in this library? Furthermore, no

other implementation's man page mentions this point.

Seems best to drop this point.

Michael Kerrisk

Add some details for `RTLD_DEFAULT`

Michael Kerrisk

Add some details on `RTLD_NEXT` and preloading

Michael Kerrisk

`RTLD_NEXT` works for symbols generally, not just functions

The common use case is for functions, but `RTLD_NEXT` also applies to variable symbols.

Michael Kerrisk

`dlclose()` recursively closes dependent libraries

Note that `dlclose()` recursively closes dependent libraries that were loaded by `dlopen()`

Michael

Kerrisk

Rename second `dlopen()` argument from "flag" to "flags"

This is more consistent with other such arguments

Michael Kerrisk

Reformat text on `RTLD_DEFAULT` and `RTLD_NEXT`

fmemopen.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The markings match glibc markings.

fpathconf.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The marking matches glibc marking.

fputwc.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The marking matches glibc marking.

fputws.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches glibc marking.

fseek.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The markings match glibc markings.

fseeko.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

gcvt.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

getline.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe
The marking matches glibc marking.

getwchar.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

hypot.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

iconv_open.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
The marking matches glibc marking.

if_nameindex.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe
The markings match glibc markings.

initgroups.3

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe
The markings match glibc markings.

mq_open.3

Torvald Riegel

Add EINVAL error case for invalid name

This behavior is implementation-defined

by POSIX. If the name

doesn't start with a '/', glibc returns EINVAL without attempting
the syscall.

popen.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe
The marking matches glibc marking.

pthread_kill.3

Michael Kerrisk

Note treatment of signals used internally by NPTL

The glibc pthread_kill() function gives an error on attempts to send either of the real-time signals used by NPTL.

pthread_sigmask.3

Michael Kerrisk

Note treatment of signals used internally by NPTL

The glibc implementation silently ignores attempts to block the two real-time signals used by NPTL.

pthread_sigqueue.3

Michael Kerrisk

Note treatment of signals used internally by NPTL

The glibc pthread_sigqueue() function gives an error on attempts to send either of the real-time signals used by NPTL.

resolver.3

Stéphane Aulery [Jakub Wilk]

Document missing options used by _res structure indicate defaults

Missing options: RES_INSECURE1, RES_INSECURE2, RES_NOALIASES, USE_INET6, ROTATE, NOCHECKNAME, RES_KEEPTSIG, BLAST, USEBSTRING, NOIP6DOTINT, USE_EDNS0, SNGLKUP, SNGLKUPREOP, RES_USE_DNSSEC, NOTLDQUERY, DEFAULT

Written from the glibc source and resolv.conf.5.

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=527136>

Stéphane Aulery

RES_IGNTC is implemented

rint.3

Matt Turner

Document that halfway cases are rounded to even

Per IEEE-754 rounding rules.

The round(3) page describes the behavior of rint and nearbyint in the halfway cases by saying:

These functions round x to the nearest integer, but round halfway cases away from zero [...], instead of to the nearest even integer like rint(3)

sigqueue.3

Michael Kerrisk

NOTES:

add "C library/kernel ABI differences" subheading

Michael Kerrisk

Clarify version info (mention `rt_sigqueueinfo()`)

`sigsetops.3`

Michael Kerrisk

Note treatment of signals used internally by NPTL

The `glibc sigfillset()` function excludes the two real-time signals used by NPTL.

`sigwait.3`

Michael Kerrisk

Note treatment of signals used internally by NPTL

The `glibc sigwait()` silently ignore attempts to wait for signals used by NPTL.

`strcoll.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The markings match `glibc` markings.

`strdup.3`

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

The marking matches `glibc` marking.

`tzset.3`

J William Piggott

Add 'std' quoting information

`ulimit.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches `glibc` marking.

`wcstombs.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches `glibc` marking.

`wctob.3`

Ma Shimiao

ATTRIBUTES: Note function that is thread-safe

The marking matches `glibc` marking.

xdr.3

Taisuke Yamada

Clarified incompatibility and correct usage of XDR API

See <http://bugs.debian.org/628099>

console_codes.4

Scot Doyle

Add Console Private CSI sequence 15

An undocumented escape sequence in drivers/tty/vt/vt.c brings the previously accessed virtual terminal to the foreground.

mtk: Patch misattributed to Taisuke Yamada in Git commit

because of a muck up on my part.

Michael Kerrisk

Add kernel version number for CSI sequence 15

random.4

Michael Kerrisk

Fix permissions shown for the devices

These days, the devices are RW for everyone.

filesystems.5

Michael Kerrisk

Remove dubious claim about comparative performance of ext2

Perhaps it was the best filesystem performance-wise in the 20th century, when that text was written. That probably ceased to be true quite a long time ago, though.

Stéphane Aulery

Add cross references for ext filesystems

Stéphane Aulery

Specifies the scope of this list and its limits.

host.conf.5

hosts.5

resolv.conf.5

Stéphane Aulery [Paul E Condon]

Cross references of these pages.

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=298259>

host.conf.5

Stéphane Aulery

Rework discussion of nospooof, spooofalert, spooof and RESOLV_SPOOF_CHECK

The keywords and environment variables "nospooof", "spooofalert", "spooof" and RESOLV_SPOOF_CHECK were added to glibc 2.0.7 but never implemented

Move descriptions to historical section and reorder it for clarity

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=773443>

hosts.5

Stéphane

Aulery [Vincent Lefevre]

Mention 127.0.1.1 for FQDN and IPv6 examples

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=562890>

proc.5

Taisuke Yamada

Document `/proc/PID/status` VmPin field

See <https://bugs.launchpad.net/bugs/1071746>

Michael Kerrisk

Document (the obsolete) `/proc/PID/seccomp`

Michael Kerrisk

Replace description of 'uid_map' with a reference to `user_namespaces(7)`

All of the information in `proc(5)` was also present in `user_namespaces(7)`, but the latter was more detailed and up to date.

Taisuke Yamada

Fix SELinux `/proc/pid/attr/current` example

Since the `/proc/pid/attr` API was added to the kernel, there have been a couple of changes to the SELinux handling of `/proc/pid/attr/current`. Fix the SELinux `/proc/pid/attr/current` example text to reflect these changes and note which kernel versions first included

the changes.

securetty.5

Stéphane Aulery [Nicolas FRANCOIS]

Note that the `pam_securetty` module also uses this file

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=528015>

This patch is a modified version of the one proposed without parts specific to Debian.

boot.7

Michael Witten

Copy edit

While a lot of the changes are issues of presentation, there are also issues of grammar and punctuation.

Michael Witten

Mention ``systemd(1)'` and its related ``bootup(7)'`

It's important that the reader receive contemporary information.

credentials.7

Michael Kerrisk

SEE ALSO: add `pthread(7)`

Michael Kerrisk

Add reference to nptl(7)

feature_test_macros.7

Michael Kerrisk

Update discussion of `_FORTIFY_SOURCE`

Since the initial implementation a lot more checks were added.

Describe all the checks would be too verbose (and would

soon

fall out of date as more checks are added). So instead, describe the kinds of checks that are done more generally.

Also a few other minor edits to the text.

hier.7

Stéphane Aulery

First patch of a series to achieve compliance with FHS 2.3

Stéphane Aulery

SGML and XML directories are separated in FHS 2.3

Stéphane Aulery

Add missing directories defined by FHS 2.3

Stéphane Aulery

Identify which directories are optional

Stéphane Aulery

Document `/initrd`, `/lost+found` and `/sys`

Ubuntu Bug #70094 reported by Brian Beck

<https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/70094>

Stéphane Aulery

Explain YP, which is not obvious

ipv6.7

Stéphane Aulery [David Madore]

`SOL_IPV6` and other `SOL_*` options socket are not portable

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=472447>

man-pages.7

Michael Kerrisk [Bill Pemberton]

Add `indent(1)` command that produces desired formatting for example code

Stéphane Aulery

Improve description of sections in accordance with intro pages

packet.7

Michael Kerrisk

Rework description of fanout algorithms as list

Michael Kerrisk

Remove mention of needing UID 0 to create packet socket

The existing text makes no sense. The check is based

purely on a capability check. (Kernel function

`net/packet/af_packet.c::packet_create()`)

Michael Kerrisk

Remove text about ancient glibc not defining SOL_PACKET

This was fixed in glibc 2.1.1, which is a long while ago.

And in any case, there is nothing special about this case;
it's just one of those times when glibc lags.

Michael Kerrisk

Rework description of 'sockaddr_ll' fields as a list

Michael Kerrisk

Various minor edits

pthread.7

Michael Kerrisk

Add references to nptl(7)

raw.7

Michael Kerrisk

Rephrase "Linux 2.2" language to "Linux 2.2 or later"

The man page was written in the Linux 2.2 timeframe, and
some phrasing was not future-proof.

signal.7

Michael Kerrisk

Note when Linux added realtime signals

Michael Kerrisk

Correct the range of realtime signals

Michael Kerrisk

Summarize 2.2 system call changes that resulted from larger signal sets

Michael Kerrisk

SEE ALSO: add nptl(7)

tcp.7

Peter Adkins

Document removal of TCP_SYNQ_HSIZE

Looking over the man page for 'tcp' I came across a reference to
tuning the 'TCP_SYNQ_HSIZE' parameter when increasing
'tcp_max_syn_backlog' above 1024. However, this static sizing was
removed back in Linux 2.6.20 in favor of dynamic scaling - as
part of commit 72a3effaf633bcae9034b7e176bdb78d64a71db.

user_namespaces.7

Eric W. Biederman

Update the documentation to
reflect the fixes for negative groups

Files with access permissions such as rwx---rwx give fewer
permissions to their group than they do to everyone else. Which
means dropping groups with setgroups(0, NULL) actually grants a
process privileges.

The unprivileged setting of `gid_map` turned out not to be safe after this change. Privileged setting of `gid_map` can be interpreted as meaning yes it is ok to drop groups. [Eric additionally noted: Setting of `gid_map` with privilege has been clarified to mean that dropping groups is ok. This allows existing programs that set `gid_map` with privilege to work without changes. That is, `newgidmap(1)` continues to work unchanged.]

To prevent this problem and future problems, user namespaces were changed in such a way as to guarantee a user can not obtain credentials without privilege that they could not obtain without the help of user namespaces.

This meant testing the effective user ID and not the filesystem user ID, as `setresuid(2)` and `setregid(2)` allow setting any process UID or GID (except the supplementary groups) to the effective ID.

Furthermore, to preserve in some form the useful applications that have been setting `gid_map` without privilege, the file `/proc/[pid]/setgroups` was added to allow disabling `setgroups(2)`. With `setgroups(2)` permanently disabled in a user namespace, it again becomes safe to allow writes to `gid_map` without privilege.

Michael Kerrisk

Rework some text describing permission rules for updating map files
No (intentional) change to the facts, but this restructuring should make the meaning easier to grasp.

Michael Kerrisk

Update kernel version associated with 5-line limit for map files

As at Linux 3.18, the limit is still five lines, so mention the more recent kernel version in the text.

Michael Kerrisk [Alban Crequy]

Handle `/proc/PID/setgroups` in the example program

Michael Kerrisk

Rework text describing restrictions on updating `/proc/PID/setgroups`
No (intentional) changes to factual description, but the restructured text is hopefully easier to grasp.

Michael Kerrisk

Explain why the `/proc/PID/setgroups` file was added

ldconfig.8

Michael Kerrisk

Note use of `/lib64` and `/usr/lib64` on some 64-bit architectures

ld.so.8

Michael Kerrisk

Note the use of /lib64 and /usr/lib64 on some 64-bit architectures

===== Changes in man-pages-3.83 =====

Released: 2015-04-19, Munich

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

posix_madvise.3

Michael Kerrisk

New page documenting posix_madvise(3)

ftw.3

Michael Kerrisk

Reorganize the page to give primacy to nftw()

nftw() is the better API, and POSIX.1-2008 marks ftw() obsolete.

Newly documented interfaces in existing pages

getdents.2

Michael Kerrisk [Dima Tisnek]

Document getdents64()

See https://bugzilla.kernel.org/show_bug.cgi?id=14795

mount.2

Michael Kerrisk, Theodore Ts'o [Eric Sandeen, Andreas Dilger,
Omar Sandoval, Darrick J. Wong]

Document MS_LAZYTIME

proc.5

Michael Kerrisk

Document /proc/sys/kernel/randomize_va_space

Michael Kerrisk

Document /proc/PID/fdinfo epoll format

Michael

Kerrisk

Describe /proc/PID/fdinfo eventfd format

Michael Kerrisk

Document /proc/PID/fdinfo signalfd format

New and changed links

newfstatat.2

Michael Kerrisk

New link to fstatat64.2

prlimit64.2

Michael Kerrisk

New link to getrlimit.2

Global changes

Various section 3 math pages

Michael Kerrisk

Note that these functions are also in POSIX.1-2001 and POSIX.1-2008

Changes to individual pages

getent.1

Robin H. Johnson

Document options

The options to getent are now documented, after being around for nearly a decade without changes.

Michael Kerrisk

Document help and version options

fallocate.2

Michael Kerrisk

Fix kernel version number for FALLOC_FL_ZERO_RANGE

FALLOC_FL_ZERO_RANGE was added in 3.15, not 3.14.

Michael Kerrisk

Note that SMB3 added FALLOC_FL_ZERO_RANGE support in Linux 3.17

getrlimit.2

Michael Kerrisk

Note that the underlying system call for prlimit() is prlimit64()

Michael Kerrisk

Remove "_FILE_OFFSET_BITS == 64" from prlimit() FTM requirements

"_FILE_OFFSET_BITS == 64" is not needed to get the prlimit() declaration.

ioctl_list.2

Nikos Mavrogiannopoulos

SIOCADDRT accepts in6_rtmsg in INET6 protocol

Heinrich Schuchardt

TFD_IOC_SET_TICKS

timerfd_create.2 mentions TFD_IOC_SET_TICKS. We should add it to ioctl_list.2, too.

lseek.2

Michael Kerrisk

Advise reader to use `lseek(2)` instead

Michael Kerrisk

`llseek()` exists on 32-bit platforms to support seeking to large offsets

madvise.2

David Rientjes

Specify `MADV_REMOVE` returns `EINVAL` for `hugetlbfs`

`madvise(2)` actually returns with error `EINVAL` for `MADV_REMOVE`

when used for `hugetlb` VMAs, not `EOPNOTSUPP`, and this has been

the case since `MADV_REMOVE`

was introduced in commit `f6b3ec238d12`

("madvise(`MADV_REMOVE`): remove pages from tmpfs shm backing store"). Specify the exact behavior.

Michael Kerrisk

SEE ALSO: add `posix_madvise(2)`

poll.2

Michael Kerrisk [Andreas Baak]

SEE ALSO: add `epoll(7)`

posix_fadvise.2

Michael Kerrisk

Add "C library/kernel ABI differences" subsection

pread.2

Michael Kerrisk

Add "C library/kernel ABI differences" subsection

seccomp.2

Michael Kerrisk [Pierre Chifflier, Kees Cook]

Note that `seccomp_data` is read-only

stat.2

Michael Kerrisk

Add some details on various "stat" versions

Three versions of "stat" appeared on 32-bit systems, dealing with structures of different (increasing) sizes.

Explain some of the details, and also note that the situation is simpler on modern 64-bit architectures.

Michael Kerrisk

Add mention of `newfstatat()`

The underlying system call for `fstatat()` is `newfstatat()` on some architectures.

symlink.2

Michael Kerrisk [Jonny Grant]

ERRORS: add linkpath="" case for ENOENT

syscalls.2

Michael Kerrisk

Remove prlimit()

There really is only the prlimit64() system call.

Michael Kerrisk

Add some details about the "multiple versions of system calls"

The multiple-system-call-version phenomenon is particularly a feature of older 32-bit platforms. Hint at that fact in the text.

timerfd_create.2

Cyrill Gorcunov [Michael Kerrisk]

Document TFD_IOC_SET_TICKS ioctl() operation

Michael Kerrisk

Add some details to C library/kernel ABI differences

unshare.2

Michael Kerrisk [Fabien Pichot]

Remove mention of "System V" from discussion of CLONE_NEWIPC

These days, CLONE_NEWIPC also affects POSIX message queues.

asprintf.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

carg.3

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

ccos.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

ccosh.3

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

cexp.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

clock.3

Ma Shimiao

ATTRIBUTES: Note functions that is thread-safe

clog.3

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

csin.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

csinh.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

csqrt.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Simplify description of what these functions calculate

ctan.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

ctanh.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Add introductory sentence explaining what these functions calculate

ctime.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

exec.3

Michael Kerrisk

SYNOPSIS: Clarify calling signature for execl() and execlp()

Michael Kerrisk [Andreas Baak]

Correct prototype for execlp()

Make the prototype shown into correct C.

ftw.3

Michael Kerrisk [Felix Sedlmeier]

ftw() and nftw() differ for the non-stat-able symlink case

The POSIX specification of ftw() says

that an un-stat-able

symlink may yield either FTW_NS or FTW_SL. The specification

of nftw() does not carry this statement.

Michael Kerrisk

CONFORMING TO: add POSIX.1-2008

Michael Kerrisk

Update POSIX version references in NOTES

getcwd.3

Jann Horn [Michael Kerrisk]

Note behavior for unreachable current working directory

Michael Kerrisk

Add ENOMEM error

gethostbyname.3

Michael Kerrisk [Jonny Grant]

Clarify that NO_ADDRESS and NO_DATA are synonyms

Michael Kerrisk

Add some detail for NO_DATA

Text consistent with POSIX and FreeBSD's gethostbyname() man page.

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

getnetent.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

get_nprocs_conf.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getutent.3

Zeng Linggang

ATTRIBUTES: Note functions that
aren't thread-safe

glob.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

insque.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

login.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

lseek64.3

Michael Kerrisk

Clarify details with respect to 32-bit and 64-bit systems

malloc.3

Michael Kerrisk

Add ENOMEM error

mbsnrtowcs.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

mbsrtowcs.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

mq_notify.3

Michael Kerrisk

Add "C library/kernel ABI differences" subsection

mq_open.3

Michael Kerrisk [Fabien Pichot]

NOTES: explain differences from the underlying system call

The check for the slash at the start of a pathname is done in glibc

openpty.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

perror.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

posix_memalign.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

printf.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

Walter Harms [Michael Kerrisk]

Simplify the example code

qsort.3

Michael Kerrisk [Rob Landley]

alphasort() and versionsort() are not suitable for 'compar'

In glibc 2.10, the prototypes of alphasort() and versionsort() were changed so that the arguments switched from 'const void *' to 'const struct dirent **', to match the POSIX.1-2008 specification of alphasort(). As such, compiler warnings will result if these functions are used as the arguments of qsort().

```
warning: passing argument 4 of 'qsort' from incompatible
pointer type
expected '__compar_fn_t' but argument is of type
'int (*)(const struct dirent
**, const struct dirent **)'
```

Therefore, remove the ancient NOTES text suggesting that alphasort() and versionsort() can be used as suitable 'compar' arguments for qsort().

realpath.3

Michael Kerrisk [Jon Grant]

Add ENOMEM error

scandir.3

Michael Kerrisk

glibc 2.10 changed the argument types for alphasort() and versionsort()

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

scanf.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

setnetgrent.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

significand.3

Ma Shimiao

ATTRIBUTES: Note functions that are thread-safe

strcasecmp.3

Michael Kerrisk [Jonny Grant]

Clarify that strcasecmp() does a byte-wise comparison

Michael Kerrisk

CONFORMING TO: add POSIX.1-2008

unlocked_stdio.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

updwtmp.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

wcrtomb.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

wcsnrtombs.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

wcsrtombs.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

wordexp.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

wprintf.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

proc.5

Michael Kerrisk

Describe "mnt_id" field of /proc/PID/fdinfo

Michael Kerrisk

Note that abstract sockets are included in /proc/net/unix

Michael Kerrisk

Update description /proc/sys/unix 'Type' field

The existing text was very crufty. UNIX domain sockets

support more than SOCK_STREAM for a _very_ long time now.

Michael Kerrisk

Add some detail to /proc/PID/timers

Michael Kerrisk [Vlastimil Babka]

Enhance discussion of /proc/PID/status 'VmSwap' field

epoll.7

Michael Kerrisk

SEE ALSO: add poll(2) and select(2)

icmp.7

YOSHIFUJI Hideaki/

Document net.ipv4.ping_group_range knob

nptl.7

Michael Kerrisk

Add reference to timer_create(2)

===== Changes in man-pages-4.00 =====

Released: 2015-05-07, Munich

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

get_phys_pages.3

William Woodruff

Document get_phys_pages() and get_avphys_pages()

loop.4

Urs Thuermann, Michael Kerrisk

New page documenting the loop device

xattr.7

Andreas Gruenbacher

Import attr(5) man page from the 'attr' project

After discussions with Andreas Gruenbacher, it makes sense to
move this page into man-pages, since it mostly relates to

kernel details. Since this is an overview page,
we'll move it to Section 7.

Michael Kerrisk

Rename page

"xattr" is a more meaningful name than "attr" (it resonates
with the names of the system calls), so as long as we are
moving the page to a new section, we'll change the name as well,
and retain an `acl(5)` link so that old references remain valid.

Newly documented interfaces in existing pages

mmap.2

Michael Kerrisk [Andi Kleen]

Document `MAP_HUGE_2MB`, `MAP_HUGE_1GB`, and `MAP_HUGE_SHIFT`

shmget.2

Michael Kerrisk [Andi Kleen]

Document `SHM_HUGE_2MB`, `SHM_HUGE_1GB`, and `SHM_HUGE_SHIFT`

resolver.3

Michael Kerrisk [Jonathan

Nieder]

Add descriptions of some other resolver functions
Add `res_ninit()`, `res_nquery()`, `res_nsearch()`,
and `res_nquerydomain()`, `res_nmkquery()`, `res_nsend()`.

tty_ioctl.4

Frédéric Maria [Stephane Fillod, Andreas Heiduk]

Document `TIOCMIWAIT` and `TIOCGICOUNT`

Michael Kerrisk

Document `TIOCGEXCL`

Michael Kerrisk

Document `TIOGCPKT`

Michael Kerrisk

Document `TIOCSPTLCK`

Michael Kerrisk

Document `TIOCGPTLCK`

New and changed links

CMSG_DATA.3

Michael Kerrisk

New link to `cmsg(3)`

CMSG_LEN.3

Michael Kerrisk

New link to cmsg(3)

dprintf.3

Michael Kerrisk

Convert to a link to printf.3

get_avphys_pages.3

William Woodruff

New link to new get_phys_pages.3 page

res_ninit.3

res_nmkquery.3

res_nquery.3

res_nquerydomain.3

res_nsearch.3

res_nsend.3

Michael Kerrisk

New links to resolver(3) man page

loop-control.4

Michael Kerrisk

New link to loop.4

attr.5

Michael Kerrisk

New link to xattr(7)

Global changes

chown.2

execve.2

prctl.2

truncate.2

proc.5

capabilities.7

ld.so.8

Michael Kerrisk

Tighter wording: 'mode bit' rather than 'permission bit'

For sticky, set-UID, and set-GID mode bits (as used in POSIX).

Changes to individual pages

add_key.2

keyctl.2

request_key.2

Michael Kerrisk

SEE ALSO: add keyrings(7)

add_key.2

request_key.2

Michael Kerrisk

SEE ALSO: add keyctl(3)

epoll_ctl.2

Michael Kerrisk

After EPOLLHUP, EOF will be seen only after all data has been consumed

epoll_wait.2

Michael Kerrisk

Clarify that signal mask treatment in epoll_pwait() is per-thread
s/sigprocmask()/pthread_sigmask()/

fcntl.2

Michael Kerrisk [Vegard Nossum]

Note an F_SETSIG corner case

get_mempolicy.2, set_mempolicy

Brice Goglin

Policy is per thread, not
per process

getxattr.2

listxattr.2

removexattr.2

setxattr.2

capabilities.7

Michael Kerrisk

Adjust "attr(5)" references to "xattr(7)"

ioctl.2

Michael Kerrisk

SEE ALSO: add console_ioctl(2) and tty_ioctl(2)

listxattr.2

xattr.7

Michael Kerrisk

Describe listxattr(2) E2BIG error and document it as a BUG

mkdir.2

Michael Kerrisk

Wording fixes + point reader at stat(2) for explanation of file mode

Michael Kerrisk [Andreas Grünbacher]

Further tweaks to text on S_ISVTX and 'mode' argument

mknod.2

Michael Kerrisk

Rewordings + point reader at stat(2) for details of mode bits

mmap.2

Michael Kerrisk

Remove text that implies that munmap() syncs MAP_SHARED mapping to file

The existing text in this page:

MAP_SHARED Share this mapping. Updates to the mapping are visible to other processes that map this file, and are carried through to the underlying file. The file may not actually be updated until msync(2) or munmap() is called.

implies that munmap() will sync the mapping to the underlying file. POSIX doesn't require this, and some light reading of the code and some light testing (fsync() after munmap() of a large file) also indicates that Linux doesn't do this.

msync.2

Michael Kerrisk

Rework text of DESCRIPTION

Rewrite the text somewhat, for easier comprehension.

No (intentional) changes to factual content

nfsservctl.2

Michael Kerrisk [J. Bruce Fields]

Note that nfsservctl() was replaced by files in nfsd filesystem

open.2

Michael Kerrisk [Andreas Gruenbacher]

open() honors the S_ISVTX, S_ISUID, and S_ISGID bits in 'mode'

Michael Kerrisk

Tighten wording: use 'mode bit' rather than 'permission bit'

Michael

Kerrisk [NeilBrown]

BUGS: O_CREAT | O_DIRECTORY succeeds if pathname does not exist

poll.2

Michael Kerrisk [Ian Pilcher]

Clarify that signal mask treatment in ppoll() is per-thread

s/sigprocmask()/pthread_sigmask()/

Michael Kerrisk [Sam Varshavchik]

After POLLHUP, EOF will be seen only after all data has been consumed

Michael Kerrisk

Make it clearer which bits are ignored in 'events'

prctl.2

Michael Kerrisk [David Wilcox, Filipe Brandenburger]

Note that "parent" for purposes of PR_SET_DEATHSIG is a *thread*

See https://bugzilla.kernel.org/show_bug.cgi?id=43300

sendfile.2

Michael Kerrisk [Jason Newton]

Note that sendfile does not support O_APPEND for 'out_fd'

See https://bugzilla.kernel.org/show_bug.cgi?id=82841

Michael Kerrisk [Gregor Jasny]

RETURN VALUE: note the possibility of "short sends"

See https://bugzilla.kernel.org/show_bug.cgi?id=97491

Michael Kerrisk [Askar Safin]

Clarify text on 'out_fd' and regular files in Linux 2.4

See https://bugzilla.kernel.org/show_bug.cgi?id=86001

shutdown.2

Michael Kerrisk [Stéphane Aulery]

BUGS: UNIX domain sockets now detect invalid 'how' values

Bug fixed in Linux 3.7.

See https://bugzilla.kernel.org/show_bug.cgi?id=47111

sigaction.2

Michael Kerrisk

Refer the reader to fcntl(2) F_SETSIG for further details on si_fd

stat.2

Jann Horn

Add note about stat() being racy

Andreas Gruenbacher

Improve description of some mode constants

Michael Kerrisk [Andreas Grünbacher]

Remove excessive leading zeros on some constants

Michael Kerrisk

Add text on POSIX terms "file mode bits" and "file permission bits"

Recent changes to various pages employ this distinction.

Michael Kerrisk

Tighten wording: use 'mode bit' rather than 'permission bit'

According

to POSIX, the 9 UGO*RWX bits are permissions, and

'mode' is used to refer to collectively to those bits plus sticky,

set-UID, and set_GID bits.

syslog.2

Michael Kerrisk

SEE ALSO: add dmesg(1)

umask.2

open.2

mknod.2

mkdir.2

Andreas Gruenbacher

Explain what default ACLs do

Explain the effect that default ACLs have (instead of the umask) in umask.2. Mention that default ACLs can have an affect in open.2, mknod.2, and mkdir.2.

unshare.2

Michael Kerrisk [Florian Weimer]

Give the reader a hint that unshare() works on processes or threads

See https://bugzilla.kernel.org/show_bug.cgi?id=59281

atexit.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

bsearch.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

cmmsg.3

Michael Kerrisk [Christopher Head]

Fix error in SCM_RIGHTS code sample

Remove erroneous second

initialization of msg.msg_controllen

in the example code for SCM_RIGHTS.

See https://bugzilla.kernel.org/show_bug.cgi?id=15952

CPU_SET.3

Chris Metcalf

Clarify language about "available" cpus

The CPU_SET.3 man page uses the adjective "available" when explaining what the argument to CPU_SET() means. This is confusing, since "available" isn't well-defined. The kernel has a set of adjectives (possible, present, online, and active) that qualify cpus, but normally none of these are what the cpu_set_t bit index means: it's just "which cpu", using the kernel's internal numbering system, even if that cpu isn't possible or present.

This change removes the word "available" and adds a sentence

warning that cpu sets may not be contiguous due to dynamic
cpu hotplug, etc.

err.3

Zeng Linggang

ATTRIBUTES: Note functions
that are thread-safe

ftw.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

gethostbyname.3

Carlos O'Donell

NSS plugins searched first

Carlos O'Donell

"order" is obsolete

gethostid.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

getmntent.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

get_nprocs_conf.3

Michael Kerrisk

Use exit() rather than return in main()

getopt.3

Michael Kerrisk [Guy Harris]

Remove crufty BUGS section

See https://bugzilla.kernel.org/show_bug.cgi?id=90261

iconv_close.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

inet_ntop.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

longjmp.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

lsearch.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

mcheck.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

on_exit.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

printf.3

Michael Kerrisk [Egmont Koblinger]

Merge dprintf() and vdprintf() discussion into this page

Michael Kerrisk

SEE ALSO: add puts(3)

Michael Kerrisk

Move return value discussion to proper RETURN VALUE section

putpwent.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

qsort.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

regex.3

Michael Kerrisk [Laurence Gonsalves]

Fix error in description of 'cflags'

'cflags' is a bit mask of *zero* (not one) or more flags.

resolver.3

Stéphane Aulery

Add info about RES_INSECURE1 and RES_INSECURE2 option in debug mode

scanf.3

Joern Heissler

Improve description of %n specifier

setjmp.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

setlocale.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

setlogmask.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

sleep.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

strsignal.3

Zeng Linggang

ATTRIBUTES: Note function that isn't thread-safe

sysconf.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

undocumented.3

William Woodruff

Remove documented functions

tty_ioctl.4

Michael Kerrisk [Denis Du]

Fix error in code example

proc.5

Michael Kerrisk [Cameron Norman, Vasiliy Kulikov]

Document /proc mount options

Document the 'hidepid' and 'gid' mount options that were added in Linux 3.3. See https://bugzilla.kernel.org/show_bug.cgi?id=90641

Based on text by Vasiliy Kulikov in Documentation/filesystems/proc.txt.

Michael Kerrisk [Kirill A. Shutemov]

Improve

description of /proc/PID/status

Guillem Jover

Document /proc/PID/exe behaviour on unlinked pathnames

Michael Kerrisk [Weijie Yang]

Document /proc/PID/status VmPMD

resolv.conf.5

Stéphane Aulery [Thomas Hood]

Document use-vc option added to glibc 2.14

Fix Ubuntu bug #1110781:

<https://bugs.launchpad.net/ubuntu/+source/manpages/+bug/1110781>

Stéphane Aulery [Thomas Hood]

Document RES_SINGLKUPREOP

Fix Ubuntu bug #1110781:

tzfile.5

Sam Varshavchik

Add various details on version 2 format

aio.7

Michael Kerrisk

Add details and update URL for OLS 2003 paper on AIO

bootparam.7

Michael Kerrisk [Alain Kalker]

Update discussion of 'debug' option

See https://bugzilla.kernel.org/show_bug.cgi?id=97161

Michael Kerrisk

Summary of multiple changes: remove cruft from this page.

Much of the detail on hardware specifics in this page dates from the 20th century. (The last major update to this page was in man-pages-1.14!) It's hugely out of date now (many of these devices disappeared from the kernel years ago.) So, I've taken a large scythe to the page to remove anything that looks seriously dated. In the process, the page has shrunk to less than 50% of its previous size.

Michael Kerrisk

Remove "buff=" details

This seems to have gone away in Linux 2.2.

Michael Kerrisk

Remove crufty "Mouse drivers" options

Michael Kerrisk

Remove crufty "General non-device-specific boot arguments" options

Michael Kerrisk

Remove crufty "Hard disks" options

Michael Kerrisk

Remove crufty "mem=" details

Michael Kerrisk

Remove crufty details on IBM MCA bus devices

Michael Kerrisk

Remove 'swap=" details

This seems to have gone away in Linux 2.2,

Michael Kerrisk

Remove crufty floppy disk driver options

In the specific case of floppy drives: the drivers still exist, but it's been a while since most of saw these devices in the wild. So, just refer the reader to the kernel source file for details. (The detail in this man page was after all originally drawn from that file.)

Remove crufty "ISDN drivers" options

Michael Kerrisk

Remove crufty "line printer driver" options

Michael Kerrisk

Remove crufty "Serial port drivers" options

Michael Kerrisk

Remove crufty reference to CONFIG_BUGi386

That option disappeared in Linux 2.4.

Michael Kerrisk

Remove crufty text

"bootsetups array" dates from Linux 2.0.

Michael Kerrisk

Remove crufty "Video hardware" options

Michael Kerrisk

Remove crufty SCSI device driver options

fanotify.7

Michael Kerrisk [Heinrich Schuchardt]

Since Linux 3.19, fallocate(2) generates FAN_MODIFY events

inotify.7

Michael Kerrisk [Heinrich Schuchardt]

Since Linux 3.19, fallocate(2) generates IN_MODIFY events

ip.7

Michael Kerrisk

Explain how IP_ADD_MEMBERSHIP determines its argument type

Michael Kerrisk [Jiri Pirko, Magnus REFTEL]

Clarify details of the IP_MULTICAST_IF socket option

Michael Kerrisk [Advait Dixi]

Remove dubious text that says that SO_PRIORITY sets IP TOS

See https://bugzilla.kernel.org/show_bug.cgi?id=35852

Michael Kerrisk

Relocate misplaced text describing ENOPROTOOPT error

packet.7

Graham Shaw

Add sll_protocol to list of required fields for outbound packets

pthread.7

Michael Kerrisk [KOSAKI Motohiro]

Using thread IDs whose lifetime has expired gives undefined behavior

See https://bugzilla.kernel.org/show_bug.cgi?id=53061

raw.7

Michael Kerrisk

[Tetsuo Handa]

For incoming datagrams, sin_port is set to zero

Michael Kerrisk

Mention `sendto()`, `recvfrom()`, and so on when discussing address format

This gives the reader a little context for the following discussion of `'sin_port'`.

Michael Kerrisk

Remove crufty reference to `<netinet/in.h>`

Michael Kerrisk

Replace reference to RFC 1700 with pointer to IANA protocol number list

signal.7

Michael Kerrisk [Steinar H. Gunderson]

Clarify that I/O operations on disks are not interrupted by signals

See https://bugzilla.kernel.org/show_bug.cgi?id=97721

unix.7

Michael Kerrisk [Christophe Lohr]

Remove mention of `UNIX_PATH_MAX`

This kernel constant is not exposed to user space.

Michael Kerrisk

Note the 108 bytes for `sun_path` is how things are done on Linux

And refer the reader to NOTES for discussion of portability.

xattr.7

Michael Kerrisk

Document EA limits for Btrfs

Michael Kerrisk

Document VFS-imposed limits on EAs

VFS imposes a 255-byte limit on EA names, and a 64kB limit on EA values.

Michael Kerrisk

The `ext[234]` block limitation applies to sum of all EAs

It is not a per-EA limit.

Michael Kerrisk

Clarify permissions required to work with `'user'` EAs

Michael Kerrisk

`ext2` and `ext3` no longer need mounting with `'user_xattr'` for user EAs

Michael Kerrisk

Add various relevant pages to `SEE ALSO`

Michael Kerrisk

Add `CONFORMING TO` section

Michael Kerrisk

Modify headings to man-pages norms

Michael Kerrisk

Btrfs also supports extended attributes

Michael Kerrisk

File capabilities are implemented using `*security*` attributes

Not `*system*` attributes

Michael Kerrisk

Describe limit on EA values for JFS, XFS, and Reiserfs

Michael Kerrisk

Explicitly mention some
of the xattr system calls in DESCRIPTION

Naming the system calls helps to orient the reader

nscd.8

Michael Kerrisk

Add mention of 'services' and 'netgroup' databases

This makes the page consistent with nscd.conf(5).

==== Changes in man-pages-4.01 =====

Released: 2015-07-23, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

bpf.2

Alexei Starovoitov, Michael Kerrisk [Daniel Borkmann]

New page documenting bpf(2)

__ppc_get_timebase.3

Tulio Magno Quites Machado Filho

New page documenting __ppc_get_timebase() and __ppc_get_timebase_freq()

Glibc 2.16 was released with a new function for the Power architecture that can read its Time Base Register.

Glibc 2.17 adds a function to read the frequency at which the Time Base Register of Power processors is updated.

queue.3

Michael Kerrisk [David Leppik, Doug Klima]

Reimport from latest FreeBSD page

Long ago,
Doug Klima noted that many macros were not
documented in the queue(3) page. Fix by reimporting from
latest [1] FreeBSD man page.

[1] Revision 263142, Modified Fri Mar 14 03:07:51 2014 UTC

This also fixes https://sourceware.org/bugzilla/show_bug.cgi?id=1506

This time, I'll learn from past mistakes and not convert
from 'mdoc' to 'man' macros.

Michael Kerrisk

Use subsections in DESCRIPTION

Michael Kerrisk

Remove SEE ALSO reference to nonexistent tree(3)

Michael Kerrisk

Use real hyphens in code samples

Michael Kerrisk

Comment out text for functions not in glibc

Michael Kerrisk

Replace HISTORY with CONFORMING TO

Newly documented interfaces in existing pages

rename.2

Michael Kerrisk [Miklos Szeredi]

Document RENAME_WHITEOUT

Heavily based on text by Miklos Szeredi.

New and changed links

__ppc_get_timebase_freq.3

Tulio Magno Quites Machado Filho

New link to new __ppc_get_timebase(3) page

LIST_EMPTY.3

LIST_FIRST.3

LIST_FOREACH.3

LIST_HEAD_INITIALIZER.3

LIST_INSERT_BEFORE.3

LIST_NEXT.3

SLIST_EMPTY.3

SLIST_ENTRY.3

SLIST_FIRST.3

SLIST_FOREACH.3
SLIST_HEAD.3
SLIST_HEAD_INITIALIZER.3
SLIST_INIT.3
SLIST_INSERT_AFTER.3
SLIST_INSERT_HEAD.3
SLIST_NEXT.3
SLIST_REMOVE.3
SLIST_REMOVE_HEAD.3
STAILQ_CONCAT.3
STAILQ_EMPTY.3
STAILQ_ENTRY.3
STAILQ_FIRST.3
STAILQ_FOREACH.3
STAILQ_HEAD.3
STAILQ_HEAD_INITIALIZER.3
STAILQ_INIT.3
STAILQ_INSERT_AFTER.3
STAILQ_INSERT_HEAD.3
STAILQ_INSERT_TAIL.3
STAILQ_NEXT.3
STAILQ_REMOVE.3
STAILQ_REMOVE_HEAD.3
TAILQ_CONCAT.3
TAILQ_EMPTY.3
TAILQ_FIRST.3
TAILQ_FOREACH.3
TAILQ_FOREACH_REVERSE.3
TAILQ_HEAD_INITIALIZER.3
TAILQ_INSERT_BEFORE.3
TAILQ_LAST.3
TAILQ_NEXT.3
TAILQ_PREV.3
TAILQ_SWAP.3

Michael Kerrisk

New links to queue.3

Global changes

Various pages

Michael Kerrisk [Andries E. Brouwer]

Remove "ABI" from "C library/kernel ABI differences" subheadings

The "ABI" doesn't really convey anything significant in the title. These subsections are about describing differences between the kernel and (g)libc interfaces.

Changes to individual pages

intro.1

Michael Kerrisk [Andries E. Brouwer]

Drop intro paragraph on '\$?' shell variable

As Andries notes, this piece of text is rather out of place in a page that was intended to provide a tutorial introduction for beginners logging in on a Linux system.

locale.1

Marko Myllynen

A minor output format clarification

A minor clarification for the locale output format which was brought up at

https://sourceware.org/bugzilla/show_bug.cgi?id=18516.

For reference, see

https://sourceware.org/bugzilla/show_bug.cgi?id=18516

<http://pubs.opengroup.org/onlinepubs/9699919799/utilities/locale.html>

Add CONFORMING TO section

capget.2

Julian Orth

Clarify that `hdrp->pid==0` is equivalent `gettid()` not `getpid()`

chroot.2

Jann Horn

`chroot()` is not intended for security; document attack

It is unfortunate that this discourages this use of `chroot(2)` without pointing out alternative solutions - for example, OpenSSH and `vsftpd` both still rely on `chroot(2)` for security.

Bind mounts should theoretically be usable as a replacement, but currently, they have a similar problem (CVE-2015-2925) that hasn't been fixed in ~6 months, so I'd rather not add it to the manpage as a solution before a fix lands.

clock_getres.2

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

eventfd.2

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

execve.2

Michael Kerrisk

Elaborate on envp/argv
as NULL behavior

_exit.2

Michael Kerrisk

Open stdio frames are not flushed, temporary files are deleted
Many years ago, text was added to the page saying that it is
implementation-dependent whether stdio streams are flushed and
whether temporary are removed. In part, this change appears to
be because POSIX.1-2001 added text related to this point.
However, that seems to have been an error in POSIX, and the
text was subsequently removed for POSIX.1-2008. See
<https://collaboration.opengroup.org/austin/interps/documents/9984/AI-085.txt>
Austin Group Interpretation reference 1003.1-2001 #085

fallocate.2

Namjae Jeon [Michael Kerrisk]

Document FALLOC_FL_INSERT_RANGE

Michael Kerrisk

Since Linux 4.2, ext4 supports FALLOC_FL_INSERT_RANGE

fcntl.2

Michael Kerrisk

OFD locks are proposed for inclusion in the next POSIX revision

getrlimit.2

Zeng

Linggang

ATTRIBUTES: Note functions that are thread-safe

getrusage.2

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

gettid.2

Michael Kerrisk

Note that for a thread group leader, `gettid() == getpid()`

iopl.2

Michael Kerrisk

Remove some historical libc5 and glibc 1 details
These details are ancient, and long ago ceased to be relevant.

ioprio_set.2

Michael Kerrisk [Jens Axboe]

Document meaning of `ioprio==0`

mlock.2

Michael Kerrisk [Mehdi Aqadjani Memar]

Document another ENOMEM error case

ENOMEM can occur if locking/unlocking in the middle of a region would increase the number of VMAs beyond the system limit (64k).

mmap.2

Michal Hocko [Eric B Munson]

Clarify MAP_POPULATE

David Rientjes has noticed that MAP_POPULATE wording might promise much more than the kernel actually provides and intends to provide.

The primary usage

of the flag is to pre-fault the range. There is

no guarantee that no major faults will happen later on. The pages might have been reclaimed by the time the process tries to access them.

Michal Hocko [Eric B Munson]

Clarify MAP_LOCKED semantics

MAP_LOCKED had a subtly different semantic from mmap(2)+mlock(2) since it has been introduced.

mlock(2) fails if the memory range cannot get populated to

guarantee that no future major faults will happen on the range.

mmap(MAP_LOCKED) on the other hand silently succeeds even if the range was populated only partially.

Fixing this subtle difference in the kernel is rather awkward

because the memory population happens after mm locks have been

dropped and so the cleanup before returning failure (munlock)

could operate on something else than the originally mapped area.

E.g. speculative userspace page fault handler catching SEGV and doing mmap(fault_addr, MAP_FIXED|MAP_LOCKED) might discard portion of a racing mmap and lead to lost data. Although it is not clear whether such a usage would be valid, mmap page doesn't explicitly describe requirements for threaded applications so we cannot exclude this possibility.

This patch makes the semantic of MAP_LOCKED explicit and suggests

using mmap + mlock as the only way to guarantee no later major

page faults.

Michael Kerrisk

ERRORS: point out that ENOMEM can occur even for munmap()

mprotect.2

Michael Kerrisk

Note ENOMEM error that can occur when we reach limit on maximum VMAs

open.2

read.2

write.2

Michael Kerrisk [Mike Hayward]

Clarify that O_NONBLOCK is a no-op for regular files and block devices

perf_event_open.2

Vince Weaver [Joerg Roedel]

Exclude_host/exclude_guest

clarification

This patch relates to the exclude_host and exclude_guest bits added by the following commit:

exclude_host, exclude_guest; Linux 3.2

commit a240f76165e6255384d4bdb8139895fac7988799

Author: Joerg Roedel <joerg.roedel@amd.com>

Date: Wed Oct 5 14:01:16 2011 +0200

perf, core: Introduce attrs to count in either host or guest mode

The updated manpage text clarifies that the "exclude_host" and "exclude_guest" perf_event_open() attr bits only apply in the context of a KVM environment and are currently x86 only.

Vince Weaver

Document PERF_SAMPLE_REGS_INTR

This patch relates to the addition of PERF_SAMPLE_REGS_INTR support added in the following commit:

perf_sample_regs_intr; Linux 3.19

commit 60e2364e60e86e81bc6377f49779779e6120977f

Author: Stephane Eranian <eranian@google.com>

perf: Add ability to sample machine state on interrupt

The primary difference between PERF_SAMPLE_REGS_INTR and the existing PERF_SAMPLE_REGS_USER is that the new support will return kernel register values. Also if precise_ip is set higher than 0 then the PEBS register state will be returned rather than the saved interrupt state.

This patch incorporates feedback from Stephane Eranian and Andi Kleen.

prctl.2

seccomp.2

Michael Kerrisk

Clarify that SECCOMP_SET_MODE_STRICT disallows exit_group(2)

These days, glibc implements _exit() as a wrapper around exit_group(2). (When seccomp was originally introduced, this was not the case.) Give the reader a clue that, despite what glibc is doing, what SECCOMP_SET_MODE_STRICT permits is the true _exit(2) system call, and not exit_group(2).

pread.2

read.2

readv.2

sendfile.2

write.2

Michael Kerrisk

Clarify that Linux limits transfers to a maximum of 0x7ffff000 bytes

See <https://bugs.debian.org/629994> and

<https://bugs.debian.org/630029>.

pread.2

Michael Kerrisk

Rewrite RETURN VALUE section

(Also drop the text on pwrite() returning zero; that seems bogus.)

ptrace.2

Michael Kerrisk [Vegard Nossum]

PTRACE_O_TRACEEXIT clarification

readv.2

Michael Kerrisk

Remove BUGS heading

The text on mixing I/O syscalls and stdio is a general point of behavior. It's not a bug as such.

recv.2

send.2

Michael Kerrisk

Explain some subtleties of MSG_DONTWAIT versus O_NONBLOCK

rename.2

Michael Kerrisk

Michael Kerrisk

Note that RENAME_NO_REPLACE can't be employed with RENAME_EXCHANGE

sched_setaffinity.2

Michael Kerrisk

Add an example program

Michael Kerrisk [Florian Weimer]

Explain how to deal with 1024-CPU limitation of glibc's `cpu_set_t` type

Michael Kerrisk

Mention the use of the 'isolcpus' kernel boot option

`sched_setattr.2`

Julian Orth

Remove a const attribute

The `attr` argument of `sched_setattr` was documented as const but the kernel will modify the `size` field of this struct if it contains an invalid value. See the documentation of the `size` field for details.

`seccomp.2`

Michael Kerrisk

SEE ALSO: `add_bpf(2)`

`send.2`

Michael Kerrisk

Expand on subtleties of `MSG_NOSIGNAL` versus ignoring `SIGPIPE`

`sigaltstack.2`

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

`socket.2`

Stephan Mueller

Update documentation reference for `AF_ALG`

`truncate.2`

Michael Kerrisk

ERRORS: `ftruncate()` can fail if the file descriptor is not writable

`utimensat.2`

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

After research, We think `utimensat()` and `futimens()` are thread-safe.

But, there are not markings of `utimensat()` and `futimens()` in glibc document.

`clearenv.3`

Zeng Linggang

ATTRIBUTES: Note function that is not thread-safe

`dl_iterate_phdr.3`

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

`error.3`

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

fexecve.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

fpurge.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

fread.3

Andries E. Brouwer

Clarify terminology

In the "RETURN VALUE" section the word *item* is in italics as if it were one of the function parameters. But the word "item" occurs here for the first time, earlier the text uses "element". [Patch improves this.]

fts.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

getaddrinfo.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getaddrinfo_a.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getauxval.3

Michael Kerrisk

File capabilities also trigger AT_SECURE

Michael Kerrisk

(Briefly) document AT_HWCAP2

getgrent_r.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

gethostbyname.3

Michael Kerrisk [Laszlo Ersek]

Remove mention of IPv6 addresses, which are not supported

As reported by Laszlo Ersek:

gethostbyname(3) fails to resolve the IPv6 address ":::1",

but the manual page says: "If name is an IPv4 or IPv6 address, no lookup is performed and gethostbyname() simply copies name into the h_name field [...]".

Debian bug report:

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=455762>

glibc bug

report:

http://sourceware.org/bugzilla/show_bug.cgi?id=5479

SUSv3 link for gethostbyname(3):

<http://www.opengroup.org/onlinepubs/000095399/functions/gethostbyname.html>

It seems that the glibc behavior is conformant, and the manual page is in error.

getifaddrs.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getnameinfo.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

getnetent_r.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getprotoent.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

getprotoent_r.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getpw.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

getpwent_r.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

getrpcent.3

Zeng Linggang

ATTRIBUTES:

Note functions that are/aren't thread-safe

getrcent_r.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

getrpcport.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

getservent.3

Zeng Linggang

ATTRIBUTES: Note functions that aren't thread-safe

getservent_r.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

gsignal.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

key_setsecret.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

malloc_get_state.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

malloc_info.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

malloc_stats.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

malloc_trim.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

MB_LEN_MAX.3

Michael Kerrisk

Clarify meaning of MB_LEN_MAX

Michael Kerrisk [Pádraig Brady]

MB_LEN_MAX is 16 in modern glibc versions

memcpy.3

Michael Kerrisk

NOTES: describe the glibc 2.13 changes that revealed buggy applications
Adding a note on this point seems worthwhile as a way of
emphasizing the point that the buffers must not overlap.

mq_notify.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

perror.3

Michael Kerrisk

Some wording improvements and clarifications

profil.3

Zeng Linggang

ATTRIBUTES: Note function that is not thread-safe

psignal.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

pthread_attr_init.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Use "%zd" for printing size_t in example code

pthread_attr_setaffinity_np.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

pthread_cancel.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

pthread_cleanup_push.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

pthread_create.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

pthread_detach.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

pthread_getattr_np.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

pthread_join.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

pthread_setname_np.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

pthread_tryjoin_np.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

putgrent.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

rcmd.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

resolver.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

rpc.3

Zeng Linggang

ATTRIBUTES:

Note functions that are thread-safe

rpmatch.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

sem_close.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

sem_open.3

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

setaliasent.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

setlocale.3

Marko Myllynen

Update CONFORMING TO

<http://pubs.opengroup.org/onlinepubs/9699919799/functions/setlocale.html>

setlocale.3

Marko Myllynen

Tweak C/POSIX locale portability description

As discussed earlier, the current description might be a little bit too stringent, let's avoid the issue by describing the portability aspect on a slightly higher level.

References:

http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap06.html

http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap07.html

<http://pubs.opengroup.org/onlinepubs/9699919799/functions/setlocale.html>

shm_open.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

strfmon.3

Marko Myllynen

Document strfmon_l(3)

Describe strfmon_l(3).

<http://pubs.opengroup.org/onlinepubs/9699919799/functions/strfmon.html>

Marko Myllynen

Fix CONFORMING TO

AFAICS strfmon(3) is now defined in POSIX and the glibc implementation is as specified there.

<http://pubs.opengroup.org/onlinepubs/9699919799/functions/strfmon.html>

Marko Myllynen

Rewrite the example

I think the example is more accurate when we use the exact locale names and also the Euro sign where appropriate.

xcrypt.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

xdr.3

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

console_codes.4

Scot Doyle [Pavel
Machek, Michael Kerrisk]

Add CSI sequence for cursor blink interval

Add a Console Private CSI sequence to specify the current console's cursor blink interval. The interval is specified as a number of milliseconds until the next cursor display state toggle, from 50 to 65535.

null.4

Michael Kerrisk

Note that reads from /dev/zero are interruptible since Linux 2.6.31

core.5

Michael Kerrisk

Mention 'coredump_filter' boot option

host.conf.5

Michael Kerrisk

Wording fix: s/resolv+/the resolver library/

The term "resolv+" seems to be historical cruft.

hosts.equiv.5

Carlos O'Donnell

Fix format, clarify IdM needs, and provide examples.

In some recent work with a Red Hat customer I had the opportunity to discuss the fine nuances of the ruserok() function and related API which are used to implement rlogin and rsh.

It came to my attention after working with QE on some automated internal testing that there were no good examples in the hosts.equiv manual page showing how the format was supposed to work for this file and for ~/.rhosts, worse the "format" line showed that there should be spaces between arguments when that would clearly lead to incorrect behaviour. In addition some things that the format allows you to write are just wrong like "-host -user" which makes no sense since the host is already rejected, and should be written as "host -user" instead. I added notes in the example to make it clear that "-host -user" is invalid.

I fixed three things:

(a) The format line.

- Either +, or [-]hostname, or +@netgrp or -@netgrp.
- Either +, or [-]username, or +@netgrp or -@netgrp.
- You must specify something in the hostname portion so remove

optional brackets.

(b) Clarify language around credentials

- If the host is not trusted you must provide credentials to the login system and that could be anything really and it depends on your configuration e.g. PAM or whatever IdM you have.

(c) Provide real-world examples

- Provide several real world examples and some corner case examples for how you would write something. Hopefully others can add examples as they see fit.

Michael Kerrisk [Carlos O'Donnell, Arjun Shankar]

Improve explanation in EXAMPLE

locale.5

Marko Myllynen

Document map to_inpunct, map to_outpunct

See e.g. fa_IR for reference.

Marko Myllynen

Document class in LC_CTYPE

See e.g. the locale zh_CN and

<http://en.cppreference.com/w/cpp/string/wide/towctrans>

<http://en.cppreference.com/w/cpp/string/wide/wctrans>

Marko Myllynen

Add iconv(1) reference

Marko Myllynen

Document character transliteration

See e.g. da_DK for reference.

(Not sure should we actually provide an example here?)

Marko Myllynen

Document era keywords

This patch completes the LC_TIME section - since these era keywords are so tightly coupled, I'm providing them as a single patch.

Based on

http://pubs.opengroup.org/onlinepubs/009695399/basedefs/xbd_chap07.html

<http://www.open-std.org/jtc1/SC22/WG20/docs/n972-14652ft.pdf>

Marko Myllynen

Document default_missing

Marko Myllynen

Document outdigit and alt_digits

See e.g. fa_IR for reference.

Marko Myllynen

Refer to locale(7) more prominently

It's probably a good idea to refer to locale(7) so that a reader can check what a category is about before describing them in detail.

Marko Myllynen

Document charclass and charconv

See e.g. the locales ja_JP and ko_KR and

<http://en.cppreference.com/w/cpp/string/wide/towctrans>

<http://en.cppreference.com/w/cpp/string/wide/wctrans>

Marko Myllynen

Copy is not exclusive in LC_CTYPE and LC_COLLATE

See e.g. da_DK for reference.

Marko Myllynen

Remove the FIXME for timezone

The timezone of LC_TIME is not in POSIX, only 6 (out of ~300)

glibc locales define it, the glibc code comment below from

[glibc.git/programs/ld-time.c](https://github.com/glibc/glibc/blob/master/programs/ld-time.c) seems to suggest it's not a good

idea, and there's been a proposal in upstream [1] to remove the

existing timezone definitions from glibc locales so I think

it's actually better to leave this one undocumented:

```
/* XXX We don't perform any tests on the timezone value since this is  
   simply useless, stupid $$!@... */
```

1) <https://sourceware.org/ml/libc-alpha/2015-06/msg00098.html>

Move the remaining LC_COLLATE FIXMEs together while at it.

Marko Myllynen

Fix country_isbn format

Both plain numbers and Unicode code points are used in

glibc locales but checking the code reveals that country_isbn

is handled like the rest of its category expect for country_num

which was clarified earlier.

Marko Myllynen

Sort according to the standard

Sort the options so that those defined in POSIX are listed first,

then followed by those defined in ISO/IEC TR 14652 in the order

of common convention in many widely used glibc locales.

Actual descriptions are unchanged.

http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap07.html

Marko Myllynen

Refer to strftime(3) where appropriate

The relationship between the locale time format syntax

and strftime()

cannot be considered as obvious.

Marko Myllynen

Document map "totitle"

See e.g. locales/i18n for reference.

Michael Kerrisk [Marko Myllynen]

Remove BUGS section saying man page is not complete

To some degree, this is true of many pages. And anyway, this page is much better after recent work by Marko.

proc.5

Michael Kerrisk

List /proc/vmstat fields

Michael Kerrisk

Tweak /proc/vmstat text

Michael Kerrisk

Add /proc/crypto entry with a pointer to further information

Michael Kerrisk [Kees Cook]

Document /proc/sys/kernel/sysctl_writes_strict

Based on text in Documentation/sysctl/kernel.txt.

Michael Kerrisk

Move misordered /proc/[pid]/timers entry

Michael Kerrisk

Refer to bpf(2) for explanation of /proc/sys/net/core/bpf_jit_enable

repertoiremap.5

Marko Myllynen

Symbolic names AKA mnemonics

A long time ago in glibc, repertoire

maps were used (but they

were removed already in 2000), those mapping files were named as mnemonics, so "mnemonic" is a term that would almost certainly come up if somebody studies glibc side (perhaps even the related standards like ISO 9945 [which I don't have access to]) so I thought it's worth to mention to term in the man page to make sure we're talking about the same thing, otherwise someone might wonder is that something different or not.

IOW, symbolic names and mnemonics are often used interchangeably, let's mention the other often used term in the page, too.

capabilities.7

Michael Kerrisk

CAP_SYS_ADMIN allows calling bpf(2)

locale.7

Marko Myllynen

LC_CTYPE determines transliteration rules on glibc systems

packet.7

[Cortland Setlow]

Fix description of binding a packet socket to an interface

pty.7

NeilBrown [Peter Hurley]

Clarify asynchronous nature of PTY I/O

A PTY is not like a pipe - there may be delayed between data being written at one end and it being available at the other.

This became particularly apparent after

commit f95499c3030f

("n_tty: Don't wait for buffer work in read() loop")

in Linux 3.12

See also the mail thread at <https://lkml.org/lkml/2015/5/1/35>

Date Mon, 04 May 2015 12:32:04 -0400

From Peter Hurley <>

Subject Re: [PATCH bisected regression] input_available_p()
sometimes says 'no' when it should say 'yes'

rtld-audit.7

Ben Woodard

Use correct printf() specifier for pointer types

In the example code you used %x rather than %p in the example code for an audit library. The problem is that it truncates the pointers on 64b platforms. So you get something

like:

```
la_symbind64(): symname = strchr sym->st_value = 0x7f4b8a3f8960  
ndx = 222 flags = 0x0 refcook = 8b53e5c8 defcook = 8b537e30
```

rather than:

```
la_symbind64(): symname = fclose sym->st_value = 0x7fa452dd49b0  
ndx = 1135 flags = 0x0 refcook = 0x7fa453f395c8 defcook = 0x7fa453f32e30
```

This has bitten me a handful of times when playing around with audit test libraries to investigate its behavior.

sched.7

Michael Kerrisk

Remove ancient, wildly optimistic prediction about future of RT patches

It seems the patches were not merged by 2.6.30...

socket.7

Michael Kerrisk

SEE ALSO: add bpf(2)

vdso.7

Nathan Lynch [Mike Frysinger]

Update for ARM

The 32-bit ARM architecture in Linux has gained a vDSO as of the 4.1 release. (I was the primary author.)

Document the symbols exported by the ARM VDSO.

Accepted kernel submission:

<http://lists.infradead.org/pipermail/linux-arm-kernel/2015-March/332573.html>

===== Changes in man-pages-4.02 =====

Released: 2015-08-08, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

dladdr.3

Michael Kerrisk

New page documenting dladdr() and dladdr1()

Relocate/rewrite dladdr() text formerly contained in dlopen(3).

Add documentation of dladdr1().

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

dlerror.3

Michael Kerrisk

Migrate dlerror(3) to new separate man page

Michael Kerrisk

Note that the returned message may be in a statically allocated buffer

Michael Kerrisk

Note that the returned string does not include a trailing newline

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

dlinfo.3

Michael Kerrisk

New page describing dlinfo(3)

Zeng Linggang

ATTRIBUTES: Note function that is thread-safe

dlopen.3

Michael Kerrisk

This page was substantially rewritten and enhanced. Notably:

- * the dladdr(), dlsym, dlvsym(), and dlerror() content were moved to separate new pages;
- * documentation for dlmopen was added;
- * and other changes as noted below.

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

Michael Kerrisk

Move atexit() discussion under "Initialization and Finalization"

Michael Kerrisk

Move discussion of _init() and _fini() to NOTES

Michael Kerrisk

Rework the discussion of initialization and finalization functions
Deemphasize the obsolete _init/_fini and give more prominence to gcc constructors/destructors.

Michael Kerrisk

dlclose() will unload the object when all references have been released

Michael Kerrisk

EXAMPLE: Remove mention of "-rdynamic"

That option isn't needed for compiling and running this program.

Michael Kerrisk

Remove reference to ld.so info page

The command

"info ld.so" simply shows the man page...

Michael Kerrisk

Add VERSIONS section

Michael Kerrisk

Reorganize conformance information for 'flags'

dlsym.3

Michael Kerrisk

Move dlsym() and dlvsym() content to new separate page

Zeng Linggang

ATTRIBUTES: Note functions that are thread-safe

Newly documented interfaces in existing pages

dlopen.3

Michael Kerrisk, Carlos O'Donnell

Document dlmopen(3)

nl_langinfo.3

Sam Varshavchik, Michael Kerrisk

Add documentation for nl_langinfo_l(3)

__ppc_set_ppr_med.3

Gabriel F. T. Gomes

Document PPC functions providing access to PPR

GNU C Library 2.18 adds functions (__ppc_set_ppr_low(3),
__ppc_set_ppr_med(3), __ppc_set_ppr_med_low(3)) that provide
access to the Program Priority Register (PPR).

__ppc_yield.3

Gabriel F. T. Gomes

Document PPC performance-hint functions

GNU C Library 2.18 adds functions __ppc_yield(3), __ppc_mdoio(3),
and __ppc_mdooio(3) that can be used provide a hint that
performance could be improved if shared resources are released
for use by other processors.

New and changed links

dladdr1.3

Michael Kerrisk

New link to (new) dladdr(3) page

dlopen.3

Michael Kerrisk

New link to dlopen.3

dlvsym.3

Michael Kerrisk

Adjust link to point to new self-contained dlvsym(3) page

nl_langinfo.1.3

Michael Kerrisk

New link to nl_langinfo.3

__ppc_mdoio.3

Gabriel F. T. Gomes

New link to __ppc_yield.3

__ppc_mdoom.3

Gabriel F. T. Gomes

New link to __ppc_yield.3

__ppc_set_ppr_low.3

Gabriel F. T. Gomes

New link to __ppc_set_ppr_med.3

__ppc_set_ppr_med_low.3

Gabriel F. T. Gomes

New link to __ppc_set_ppr_med.3

Global changes

Very many pages

Michael Kerrisk

Update

CONFORMING TO section to reflect POSIX.1-2001 and POSIX.1-2008

details. (By now, I believe all pages should be up to date with

respect to appropriately mentioning POSIX.1-2001 and POSIX.1-2008.)

ldd.1

sprof.1

execve.2

dlopen.3

ld.so.8

Michael Kerrisk

Prefer "shared object" over "shared library"

The man pages variously use "shared library" or "shared object".

Try to more consistently use one term ("shared object"), while also pointing out on a few pages that the terms are synonymous.

Changes to individual pages

accept.2

Michael Kerrisk

Add mention of POSIX.1-2008 regarding EAGAIN vs EWOULDBLOCK

bpf.2

Daniel Borkmann

Various updates/follow-ups to address some fixmes

A couple of follow-ups to the bpf(2) man-page, besides others:

- * Description of map data types
- * Explanation on eBPF tail calls and program arrays
- *

Paragraph on tc holding ref of the eBPF program in the kernel

- * Updated ASCII image with tc ingress and egress invocations
- * `__sync_fetch_and_add()` and example usage mentioned on arrays
- * minor reword on the licensing and other minor fixups

execve.2

Michael Kerrisk

Reword text on POSIX and #!

io_getevents.2

Michael Kerrisk

Note return value on interruption by a signal handler

Michael Kerrisk

Clarify details of return value for timeout-expired case

Michael Kerrisk

Clarify and extend discussion of 'timeout' argument

mmap.2

Michael Kerrisk

Note that 'length' need not be a page-size multiple for munmap()

Michael Kerrisk [David Rientjes, David Rientjes, Mike Kravetz]

Describe mmap()/munmap() argument requirements for huge-page mappings

Michael Kerrisk

Move discussion of timestamps to NOTES

A straight move; no changes to the content.

This content

is better placed in NOTES.

seccomp.2

Michael Kerrisk

SEE ALSO: mention libseccomp pages

SEE ALSO: add scmp_sys_resolver(1)

sigaction.2

Michael Kerrisk

Correct the list of flags that were added in POSIX.1-2001

socketpair.2

Michael Kerrisk [Goswin von Brederlow]

Clarify use of SOCK_* flags in 'type' argument

See <http://bugs.debian.org/794217>

atexit.3

Michael Kerrisk

SEE ALSO: add dlopen(3)

clock_getcpuclockid.3

Michael Kerrisk

Improve wording of EPERM error

It's imprecise to say that this is an "optional" error
in POSIX.1.

dl_iterate_phdr.3

Michael Kerrisk

Note that 'size' allows callback() to discover structure extensions

Michael Kerrisk

SEE ALSO: add dladdr(3)

Michael Kerrisk

CONFORMING TO: note that this function appears on some other systems

fseeko.3

Michael Kerrisk

Remove crufty NOTES section

This ancient System

V detail is unneeded.

getutent.3

Michael Kerrisk

Mention POSIX.1-2008 for the "utmpx" functions

iconv_close.3

iconv_open.3

Michael Kerrisk

CONFORMING TO: change "UNIX98" to "SUSv2"

malloc.3

Michael Kerrisk

Change "UNIX 98" to "SUSv2"

mktemp.3

Gleb Fotengauer-Malinovskiy

Reference mkdtemp(3) in addition to mkstemp(3)

Mention mkdtemp(3) as another secure alternative to mktemp(3).

See also https://sourceware.org/bugzilla/show_bug.cgi?id=2898.

mq_receive.3

mq_send.3

Michael Kerrisk

Clarify discussion of 'timeout'

In particular, remove the word 'ceiling', which falsely suggests that the call might return prematurely.

nl_langinfo.3

Michael Kerrisk

Explicitly describe the return value on success

Michael Kerrisk

POSIX specifies that the caller may not modify the returned string

Michael Kerrisk

Enhance RETURN VALUE description

Note

some further cases where returned string may be invalidated or overwritten.

perror.3

Michael Kerrisk

Reformat CONFORMING to information

Michael Kerrisk

Note that 'sys_errlist' and 'sys_nerr' are not in POSIX.1

posix_openpt.3

Michael Kerrisk

Reword text regarding systems that don't have posix_openpt()

printf.3

Michael Kerrisk

CONFORMING TO: update details for dprintf() and vdprintf()

setlogmask.3

Michael Kerrisk

Remove useless statement in CONFORMING TO

Saying that the description in PSOX.1-2001 is flawed,

without saying what the fla is, is not helpful.
(And no, I don't know what the flaw is.)

shm_open.3

Michael Kerrisk

Add POSIX.1-2008 details regarding group ID of new shared memory object

strfmon.3

Michael Kerrisk

Fix erroneous CONFORMING to
strfmon() is in POSIX.1.

fanotify.7

Heinrich Schuchardt

Clarify effects of file moves

If files or directories are moved to other mounts, the inode is
deleted. Fanotify marks are lost.

mq_overview.7

Michael Kerrisk

Remove unneeded CONFORMING TO section

nptl.7

Michael Kerrisk [Nicholas Miell]

Note that i386 and x86-64 binaries can't share mutexes

sched.7

Nikola Forró

Fix descriptions of sched_get_priority_max() / sched_get_priority_min()

sem_overview.7

Michael Kerrisk

Remove unneeded CONFORMING TO section

shm_overview.7

Michael Kerrisk

Remove unneeded CONFORMING TO section

sigevent.7

Michael Kerrisk

Remove unneeded CONFORMING TO section

symlink.7

Michael Kerrisk

Update with POSIX.1-2008 details for link(2)

ld.so.8

Michael Kerrisk [Jonathan David Amery]

Items in LD_LIBRARY_PATH can also be delimited by semicolons

See <http://bugs.debian.org/794559>.

===== Changes in man-pages-4.03 =====

Released: 2015-12-05,
Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

perf_event_open.2

Vince Weaver

4.1 adds AUX sample support

Vince Weaver

4.1 data_offset and data_size fields

Vince Weaver

[Alexander Shishkin]

Document aux_{head,tail,offset,size} support

Vince Weaver

4.0 update rdpmc documentation

Vince Weaver

4.1 adds PERF_RECORD_ITRACE_START

Vince Weaver

Document 4.1 clockid support

Vince Weaver [Steven Rostedt, Masami Hiramatsu]

4.1 PERF_EVENT_IOC_SET_BPF support

Vince Weaver

4.1 adds AUX_FLAG_OVERWRITE support

Vince Weaver

4.1 PERF_SAMPLE_BRANCH_CALL_STACK

Vince Weaver

4.1 adds aux_watermark

Vince Weaver

Add possibility of EBUSY error

prctl.2

Andy Lutomirski [Kees Cook, Serge Hallyn]

Document operations for ambient capabilities

Michael Kerrisk

Rework PR_CAP_AMBIENT text

Note that arg4 and arg5 must be zero for CAP_AMBIENT

RETURN VALUE: Add PR_CAP_AMBIENT + PR_CAP_AMBIENT_IS_SET case

ERRORS: document PR_CAP_AMBIENT error cases

[__ppc_set_ppr_med.3](#)

Gabriel F. T. Gomes

Document PPC functions providing access to PPR

GNU C Library commit 1747fcda4902a3b46183d93fb16ed9b436b2608b extends the priorities that can be set to the Program Priority Register (PPR), with the functions: `__ppc_set_ppr_very_low(3)` and `__ppc_set_ppr_med_high(3)`.

[capabilities.7](#)

Andy Lutomirski [Kees Cook, Serge Hallyn]

Document ambient capabilities

Michael Kerrisk

Various additions and reworkings for ambient capability text

New and changed links

[__ppc_set_ppr_med_high.3](#)

Gabriel F. T. Gomes

New link to [__ppc_set_ppr_med.3](#)

[__ppc_set_ppr_very_low.3](#)

Gabriel F. T. Gomes

New link to [__ppc_set_ppr_med.3](#)

Changes to individual pages

[mremap.2](#)

Eric B Munson [Michal Hocko]

Add note about `mremap()` with locked areas

When `mremap()` is used to move or expand a mapping that is locked with `mlock()` or equivalent it will attempt to populate the new area. However, like `mmap(MAP_LOCKED)`, `mremap()` will not fail if the area cannot be populated. Also like `mmap(MAP_LOCKED)` this might come as a surprise to users and should be noted.

[open.2](#)

Michael Kerrisk [David Drysdale]

Remove accidental mention of `O_TTY_INIT`

An earlier edit mentioned `O_TTY_INIT` as a file creation flag. That's true, according POSIX, but Linux does not implement this flag, so remove mention of it.

pipe.2

Michael Kerrisk

SEE ALSO: add splice(2)

prctl.2

Michael Kerrisk

Reorder options alphabetically

Employ a pseudo-alphabetical order, ordering options after removal of any "PR_", "PR_SET_", or "PR_GET" prefix.

Michael Kerrisk

Fix alphabetical misplacements in ERRORS

ptrace.2

Tycho Andersen

Document PTRACE_O_SUSPEND_SECCOMP flag

Michael Kerrisk

Document /proc/sys/kernel/yama/ptrace_scope

Michael Kerrisk

Note that PTRACE_ATTACH cannot be applied to nondumpable processes

Michael Kerrisk

SEE ALSO: add prctl(2)

reboot.2

Casper Ti. Vector

1-argument reboot() is also provided by alternative libc

seccomp.2

Michael Kerrisk

Describe use of 'instruction_pointer' data field

Michael Kerrisk [Kees Cook]

Note why all filters in a set are executed even after SECCOMP_RET_KILL

signalfd.2

Michael Kerrisk

Describe semantics with respect to SCM_RIGHTS

syscalls.2

Michael Kerrisk

Add mlock(2)

Michael Kerrisk

Add userfaultfd()

daemon.3

Michael Kerrisk [Johannes Stüttgen]

Note that daemon() is buggy with respect to controlling tty acquisition

dirfd.3

Jonathan Wakely

Remove outdated NOTES

As stated in the SYNOPSIS, since glibc 2.10 this function is also declared by the relevant X/Open and POSIX macros.

dlopen.3

Michael Kerrisk

Make it more explicit

that LD_BIND_NOW overrides RTLD_LAZY

Michael Kerrisk [Florian Weimer]

Correct the pathname used in EXAMPLE

Quoting Florian:

This does not work because libm.so can be a linker script:

```
handle = dlopen("libm.so", RTLD_LAZY);
```

The proper way to do this is to include <gnu/lib-names.h> and use LIBM_SO.

See https://bugzilla.kernel.org/show_bug.cgi?id=108821

Michael Kerrisk

Include a shell session showing build/run in EXAMPLE

Michael Kerrisk

Change arguments to main() to "void" in EXAMPLE

fgetgrent.3

Zeng Linggang

ATTRIBUTES: Note function that is not thread-safe

fgetpwent.3

Zeng Linggang

ATTRIBUTES: Note function that is not thread-safe

getauxval.3

Michael Kerrisk

Add some details for AT_SECURE

getspnam.3

Zeng Linggang

ATTRIBUTES: Note functions that are/aren't thread-safe

mallinfo.3

Zeng Linggang

ATTRIBUTES: Note function that is not thread-safe

mallopt.3

Carlos O'Donell

Document M_ARENA_TEST and M_ARENA_MAX

posix_fallocate.3

Michael Kerrisk

Clarify text relating to MT-safety

Carlos O'Donnell

Mention glibc emulation caveats

termios.3

Olivier TARTROU

Add missing details on behaviour of PARMRK

For a serial terminal, with a specific configuration, input bytes with value 0377 are passed to the program as two bytes, 0377 0377.

tty_ioctl.4

Michael Kerrisk [Peter Hurley]

Note that TIOCTTYGSTRUCT went away in Linux 2.5.67

core.5

Ross Zwisler

Add info about DAX coredump filtering flags

Kernel 4.4 added two new core dump filtering flags, MMF_DUMP_DAX_PRIVATE and MMF_DUMP_DAX_SHARED.

These flags allow us to explicitly filter DAX mappings.

This is desirable because DAX mappings, like hugetlb mappings, have the potential to

be very large.

nsswitch.conf.5

Nikola Forró

Add list of files being read when "files" service is used

This is not mentioned anywhere. Users can assume that the file being read is something like /etc/\$DATABASE, but that's not always the case. It's better to explicitly specify which file is read for each respective database. The list of files was acquired from glibc source code.

proc.5

Heinrich Schuchardt [Michael Kerrisk]

Add details for threads-max

Add detail information for threads-max.

The checks for minimum and maximum values exist since kernel 4.1.

<https://lkml.org/lkml/2015/3/15/96>

Heinrich Schuchardt

/proc/sys: Describe whitespace characters

Michael Kerrisk

Document 'CapAmb' in /proc/PID/status

Michael Kerrisk

Add reference to ptrace(2) for /proc/sys/kernel/yama/ptrace_scope

aio.7

Michael Kerrisk [Meikun Wang]

Add missing include file, <fcntl.h>, to example program

mq_overview.7

Michael Kerrisk [Arto Bendiken]

Document QSIZE bug that appeared in 3.5 and was fixed in 4.2

path_resolution.7

Michael Kerrisk

Clarify recursive resolution of symlinks and note limits

pipe.7

Michael Kerrisk

SEE ALSO: add splice(2)

rtld-audit.7

Namhyung Kim

Fix (typo) error in la_pltenter() description

s/la_pltenter()/la_pltexit(/

la_pltenter() is called regardless of the value of framesizep but la_pltexit() is called only if la_pltenter() returns with non-zero framesizep set. I spent long time to figure out why la_pltexit() is not called at all.

signal.7

Michael Kerrisk [Michael Hocko]

Note async-signal-safe functions added by POSIX.1-2008 TC1

tcp.7

Daniel Borkmann [Michael Kerrisk]

Improve paragraphs on tcp_ecn and add tcp_ecn_fallback bullet

Improve description

of tcp_ecn, fix the RFC number and it's

not a boolean anymore since long time, and add a description

for tcp_ecn_fallback.

See also kernel doc under Documentation/networking/ip-sysctl.txt

on tcp_ecn and tcp_ecn_fallback.

ld.so.8

Michael Kerrisk

LD_POINTER_GUARD has been removed in glibc 2.23

Michael Kerrisk

Describe secure-execution mode

Michael Kerrisk [Maria Guseva]

Replace mentions of set-UID/set-GID programs with secure-execution mode

Inspired by a patch from Maria Guseva.

Maria Guseva [Silvan Jegen]

LD_DEBUG is effective in secure-execution mode if /etc/suid-debug exists

===== Changes in man-pages-4.04 =====

Released: 2015-12-29, Munich

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Apologies if I missed anyone!

New and rewritten pages

futex.2

Michael Kerrisk, Thomas Gleixner, Torvald Riegel [Davidlohr Bueso, Heinrich Schuchardt, Darren Hart, Rusty Russell, Pavel Machek, Rich Felker]

Rewrite and massively expand page

membarrier.2

Mathieu Desnoyers [Michael Kerrisk]

New page documenting membarrier() system call

Newly documented interfaces in existing pages

mlock.2

Eric B Munson [Michal Hocko, Vlastimil Babka, Michael Kerrisk]

Document mlock2(2) and MCL_ONFAULT

New and changed links

mlock2.2

Eric B Munson

New link to mlock.2

Global changes

Various pages

Michael Kerrisk

ERRORS: standardize

text for EMFILE error

Various pages

Michael Kerrisk

ERRORS: standardize error text for ENOTSOCK error

Various pages

Michael Kerrisk

ERRORS: standardize text for ENFILE error

Changes to individual pages

clock_getres.2

Michael Kerrisk

SEE ALSO: add vdso(7)

epoll_create.2

Michael Kerrisk

ERRORS: add another EMFILE error case

fanotify_init.2

Michael Kerrisk

ERRORS: add an EMFILE error case

fork.2

Michael Kerrisk

Child of MT-process is restricted to async-signal-safe functions

getcpu.2

Michael Kerrisk

SEE ALSO: add vdso(7)

getrlimit.2

Michael Kerrisk [Lennart Poettering]

The init of measurement for RLIMIT_RSS is bytes, not pages

get_robust_list.2

Michael Kerrisk

Reword EINVAL error text

gettimeofday.2

Carlos O'Donell

Expand on the historical meaning of tz_dsttime

Michael Kerrisk

SEE ALSO: add vdso(7)

inotify_init.2

Michael Kerrisk

ERRORS: add an EMFILE error case

personality.2

Dmitry V. Levin

Note kernel and glibc versions that introduced this system call

poll.2

Richard Voigt

timeout_ts is a pointer, so use -> not . for member access

Michael Kerrisk

Shorten name of timeout argument for ppoll()

The name is overly long, and does not hint at the fact that this argument is a pointer. Fix this by renaming: s/timeout_ts/tmo_p/

sendfile.2

Laurent Georget

Document more ERRORS

sigreturn.2

Michael Kerrisk

SEE ALSO: add vdso(7)

socketcall.2

Michael Kerrisk

Since Linux 4.3, x86-32 provides direct system calls for the sockets API

time.2

Zack Weinberg

Explain why the glibc time() wrapper never sets 'errno'

Michael Kerrisk [H.J. Lu]

Where time() is provided by vDSO, an invalid address may give SIGSEGV

Michael Kerrisk [Paul Eggert]

Describe EOVERFLOW details

Michael Kerrisk

SEE ALSO: add vdso(7)

Michael Kerrisk

Rename 't' argument to 'tloc'

dlerror.3

Michael Kerrisk [Jonny Grant]

Clarify that the string returned by dlerror() is null terminated

dlopen.3

Michael Kerrisk

Include a shell session showing build/run in EXAMPLE

Michael Kerrisk

Change arguments to main() to "void" in EXAMPLE

drand48.3

Michael Kerrisk [Vincent Lefevre]

Correct descriptions of ranges returned by these functions

See <http://bugs.debian.org/803459>

errno.3

Michael Kerrisk

Note probable cause of ENFILE error

fnmatch.3

Pádraig Brady

Describe the FNM_EXTMATCH flag and pattern syntax

iconv.3

Andries E. Brouwer

NOTES: describe correct usage for flushing partially buffered input

random_r.3

Michael Kerrisk [Archie Cobbs]

Clarify need to use initState_r()

tzset.3

Carlos O'Donell

Clarify "daylight" and remove erroneous note

random.4

Michael Kerrisk [Tom Gundersen]

Rework example scripts to assume 'poolsize' unit is bits, not bytes

Michael Kerrisk [Walter Harms]

Use modern command substitution syntax in shell session log

proc.5

Michael Kerrisk

Reaching /proc/sys/fs/file-max limit normally produces an ENFILE error

futex.7

Heinrich Schuchardt

SEE ALSO updates

Michael Kerrisk

Note some other locking primitives that are built with futexes

Heinrich Schuchardt

NPTL, avoid abbreviation

Michael Kerrisk

Note that a futex is 4 bytes on all platforms

vdso.7

Michael Kerrisk

Add note on strace(1) and vDSO

ld.so.8

H.J. Lu [Michael Kerrisk]

Document LD_PREFER_MAP_32BIT_EXEC

Michael Kerrisk

Clarify setting of LD_BIND_NOT

Michael Kerrisk

Clarify setting of LD_DYNAMIC_WEAK

Michael Kerrisk

Clarify setting of LD_TRACE_PRELINKING

Michael Kerrisk

Clarify some details

for LD_SHOW_AUXV

===== Changes in man-pages-4.05 =====

Released: 2016-03-15, Christchurch

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Apologies if I missed anyone!

New and rewritten pages

copy_file_range.2

Anna Schumaker [Darrick J. Wong, Christoph Hellwig, Michael Kerrisk]

New page documenting copy_file_range()

copy_file_range() is a new system call for copying ranges of data completely in the kernel. This gives filesystems an opportunity to implement some kind of "copy acceleration", such as reflinks or server-side-copy (in the case of NFS).

personality.2

Michael Kerrisk

This page has been greatly expanded, to add descriptions of personality domains.

fmemopen.3

Michael Kerrisk [Adhemerval Zanella]

Significant reworking of this page:

- * Rework discussion of the (obsolete) binary mode
- * Split open_memstream(3) description into a separate page.
- * Note various fmemopen() bugs that were fixed in glibc 2.22
- * Greatly expand description of 'mode' argument
- * Rework description of 'buf' and 'len' arguments
- * Expand discussion

of "current position" for fmemopen() stream

ntp_gettime.3

Michael Kerrisk

New page describing ntp_gettime(3) and ntp_gettimex(3)

open_memstream.3

Michael Kerrisk

New page created by split of fmemopen(3).

At the same time, add and rework a few details in the text.

posix_spawn.3

Bill O. Gallmeister, Michael Kerrisk

New man page documenting posix_spawn(3) and posix_spawnp(3)

readdir.3

Michael Kerrisk [Florian Weimer]

Split readdir_r() content into separate page

As suggested by Florian Weimer:

It may make sense to move this documentation to a separate manual page, specific to readdir_r. This will keep the readdir() documentation nice and crisp. Most programmers will never have to consult all these details.

Michael Kerrisk

Near complete restructuring of the page and add some further details

Michael Kerrisk [Florian Weimer, Rich Felker,

Paul Eggert]

Add a lot more detail on portable use of the 'd_name' field

readdir_r.3

Michael Kerrisk [Florian Weimer]

New page created after split of readdir(3).

Michael Kerrisk [Florian Weimer]

Explain why readdir_r() is deprecated and readdir() is preferred

Michael Kerrisk [Florian Weimer]

Remove misleading code example using pathconf()

lirc.4

Alec Leamas

New page documenting lirc device driver

Newly documented interfaces in existing pages

adjtimex.2

Michael Kerrisk

Document ntp_adjtime(3)

epoll_ctl.2

Michael Kerrisk [Jason Baron]

Document EPOLLEXCLUSIVE

madvise.2

Minchan Kim [Michael Kerrisk]

Document MADV_FREE

Document the MADV_FREE flag added to madvise() in Linux 4.5.

proc.5

Michael Kerrisk

Document CmaTotal and CmaFree fields of /proc/meminfo

Michael Kerrisk

Document additional /proc/meminfo fields

Document DirectMap4k, DirectMap4M, DirectMap2M, DirectMap1G

Michael Kerrisk

Document MemAvailable /proc/meminfo field

Michael Kerrisk

Document inotify /proc/PID/fdinfo entries

Michael Kerrisk

Document fanotify /proc/PID/fdinfo entries

Michael Kerrisk

Add some kernel version numbers for /proc/PID/fdinfo entries

Michael Kerrisk [Patrick Donnelly]

/proc/PID/fdinfo displays the setting of the close-on-exec flag

Note also the pre-3.1 bug in the display of this info.

socket.7

Craig Gallek [Michael Kerrisk, Vincent Bernat]

Document some BPF-related socket options

Document the behavior and the first kernel version for each of the following socket options:

SO_ATTACH_FILTER
SO_ATTACH_BPF
SO_ATTACH_REUSEPORT_CBPF
SO_ATTACH_REUSEPORT_EBPF
SO_DETACH_FILTER
SO_DETACH_BPF

SO_LOCK_FILTER

New and changed links

isalpha.1.3

Michael Kerrisk

New link to isalpha.3

longjmp.3

Michael Kerrisk

Replace page with link to setjmp(3), which now incorporates longjmp()

ntp_adjtime.3

Michael Kerrisk

New link to adjtimex(2)

ntp_gettimex.3

Michael Kerrisk

New link to ntp_gettime.3

open_wmemstream.3

Michael Kerrisk

Update link to point to new open_memstream(2) page

posix_spawn.3

Michael Kerrisk

New link to new posix_spawn.3 page

siglongjmp.3

Michael Kerrisk

Rewire link to point to setjmp(3)

strerror_1.3

Michael Kerrisk

New link to strerror.3

Fix missing link

Global changes

Various pages

Michael Kerrisk

Update FTM requirements (`_DEFAULT_SOURCE`)

Michael Kerrisk

Update feature test macro requirements

Update to use `_DEFAULT_SOURCE`, and also changes brought by glibc

commit 266865c0e7b79d4196e2cc393693463f03c90bd8.

Various pages

Michael Kerrisk

Simplify FTM requirements

Looking at `<features.h>` (or `feature_test_macros(7)`), one can see that when `_XOPEN_SOURCE` is defined with the value 700 (or greater), then `_POSIX_C_SOURCE` is defined with the value 200809L (or greater). Therefore, terms in the man pages such as

```
_XOPEN_SOURCE\ >=\ 700 || _POSIX_C_SOURCE\ >=\ 200809L
```

can be simplified to:

```
_POSIX_C_SOURCE\ >=\ 200809L
```

Various pages

Michael Kerrisk

Simplify FTM requirements

Looking at <features.h> (or feature_test_macros(7)), one can see that when `_XOPEN_SOURCE` is defined with the value 600 (or greater), then `_POSIX_C_SOURCE` is defined with the value 200112L (or greater). Therefore, terms in the man pages such as

```
_XOPEN_SOURCE\ >=\ 600 || _POSIX_C_SOURCE\ >=\ 200112L
```

can be simplified to:

```
_POSIX_C_SOURCE\ >=\ 200112L
```

Various pages

Michael Kerrisk

Simplify FTM requirements

`_XOPEN_SOURCE` implies `_POSIX_C_SOURCE >=2`, so simplify FTM requirements in various pages.

Various pages

Michael Kerrisk

Remove "or 'cc -std=c99'" from SYNOPSIS

Under the FTM requirements all of these pages document the requirement for `_ISOC99_SOURCE`. And feature_test_macros(7) now documents that "cc -std=c99" produces the same effect as defining `_ISOC99_SOURCE`. So, all of these pages don't additionally need to specify "or 'cc -std=c99'" under the FTM requirements in the SYNOPSIS. Removing that redundant text also simplifies the SYNOPSIS a little.

Various pages

Michael Kerrisk

Simplify FTM requirements

Looking at <features.h> (or feature_test_macros(7)), one can see that when `_XOPEN_SOURCE` is defined with the value 600 (or greater), then `_POSIX_C_SOURCE` is defined with the value 200112L (or greater). Therefore, terms in the man pages such as

```
_XOPEN_SOURCE\ >=\ 600 || _POSIX_C_SOURCE\ >=\ 200112L
```

can be simplified to:

```
_POSIX_C_SOURCE\ >=\ 200112L
```

Various pages

Michael Kerrisk

Remove references to `_XOPEN_SOURCE_EXTENDED` in SYNOPSIS

`_XOPEN_SOURCE_EXTENDED` is obsolete (it existed in SUSv1, but not subsequent standards). `_XOPEN_SOURCE >= 500` produces the same effects as `(_XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED)`. Modifying the SYNOPSIS of various ages that contain:

```
_XOPEN_SOURCE\ >=\ 500 ||  
  _XOPEN_SOURCE\ &&\ _XOPEN_SOURCE_EXTENDED
```

to just:

```
_XOPEN_SOURCE\ >=\ 500
```

This has the following benefits:

- a) Simplifying the SYNOPSIS by removing ancient historical information.
- b) Preventing users from being misled into using `_XOPEN_SOURCE_EXTENDED` in new source code.

Various pages

Michael Kerrisk

Remove mention of the obsolete `_POSIX_SOURCE` macro from SYNOPSIS
`_POSIX_SOURCE` was a POSIX.1-1990 creation that was soon made obsolete by `_POSIX_C_SOURCE`. Retaining mention of it in the feature test macro requirements section of the SYNOPSIS doesn't contain important information, and may mislead readers into actually trying to use this macro. A few mentions of it are maintained in a some pages where defining `_POSIX_SOURCE` inhibits some behavior.

Various sockets-related pages

Michael Kerrisk [Carlos O'Donnell]

Use consistent argument/variable names for socket addresses and lengths
As noted by Carlos, there's quite a bit of inconsistency across pages. Use 'addr' and 'addrlen' consistently in variables and function arguments.

Various pages

Michael Kerrisk

Wording fix: "current file offset" ==> "file offset"
"File offset" is the preferred POSIX terminology.

Various pages

Michael Kerrisk

Word "descriptor" more precisely

Use either "file descriptor" or "message queue descriptor".

Various pages

Michael Kerrisk

ERRORS: add reference to `signal(7)` in description of `EINTR`

Changes to individual pages

locale.1

Marko Myllynen

Add "locale -c charmap" as an example

Addresses https://bugzilla.kernel.org/show_bug.cgi?id=104511.

localedef.1

Marko Myllynen

Add hint on purpose of `--no-archive`

Indicate why using `--no-archive` might be a good idea. The issue is that if you create a custom locale with `localedef(1)` and put it to the locale archive then during the next `glibc` upgrade the locale archive

is updated as well and your custom locale is gone.)

accept.2

Michael Kerrisk

ERRORS: improve description for `EBADF`

adjtimex.2

Michael Kerrisk [John Stultz]

Various improvements after feedback from John Stultz

Michael Kerrisk

Remove `FTM` requirements

It seems that `adjtimex()` never needed `_BSD_SOURCE` (and my earlier commit `5918743bc8b02b` was simply a blunder).

Michael Kerrisk

Split `EINVAL` error cases

Michael Kerrisk

Note treatment of out-of-range `buf.offset`

Michael Kerrisk

Don't refer reader to `adjtime(3)`

Probably, it's not wise to suggest `adjtime(3)` as the more portable API. Rather, `ntp_adjtime(3)` should be used.

Michael Kerrisk [Naresh Kamboju]

Update details of `buf.offset` `EINVAL` error

Michael Kerrisk

SEE ALSO: add `ntp_gettime(3)`

Michael Kerrisk

Improve description of some PPS timex fields

Michael Kerrisk

Add ATTRIBUTES

section

William Preston [Petr Gajdos]

Update a detail in adjtimex return value description

Michael Kerrisk

Note range constraints and clamping for ADJ_FREQUENCY

bdflush.2

Michael Kerrisk

Note that glibc support for this system call went away in version 2.23

bind.2

Michael Kerrisk

Improve description of ENOENT error

bpf.2

Michael Kerrisk

Document close-on-exec semantics

The close-on-exec file descriptor flag is automatically enabled for FDs returned by bpf().

chmod.2

Michael Kerrisk

Clarify terminology (file mode versus file permission bits)

chown.2

Michael Kerrisk

ERRORS: improve EBADF description

clone.2

unshare.2

Michael Kerrisk

Remove mention of `_BSD_SOURCE` and `_SVID_SOURCE`

The right way to expose declarations for these Linux-specific system calls was always `_GNU_SOURCE`. Mentioning the historical use of `_BSD_SOURCE`

and `_SVID_SOURCE` just clouds the issue.

connect.2

Michael Kerrisk

ERRORS: improve EBADF description

create_module.2

Michael Kerrisk

Glibc 2.23 removed last vestiges of support for this system call

delete_module.2

Michael Kerrisk

Glibc 2.23 removed last vestiges of support for this system call

epoll_ctl.2

Michael Kerrisk

Document ELOOP error for circular monitoring loops

eventfd.2

Michael Kerrisk

Note that eventfd info is available in /proc/PID/fdinfo

execve.2

Michael Kerrisk [Krzysztof Adamski]

Add EPERM error for capabilities check of capability-dumb binaries

Michael Kerrisk

Add reference to ld-linux.so(8)

Michael Kerrisk

SEE ALSO: add system(3)

fanotify_init.2

Michael Kerrisk

Note kernel version that allowed O_CLOEXEC for event_f_flags

fcntl.2

flock.2

Michael Kerrisk

SEE ALSO: add lslocks(8)

fcntl.2

Michael Kerrisk [Jason Vas Dias]

Rework description

of F_SETOWN

As suggested by Jason, make it clearer that I/O signalling requires the use of both F_SETOWN and O_ASYNC. While we're at, make a few other cleanups to the text.

Michael Kerrisk

Remove mention of _BSD_SOURCE to get definition of F_SETOWN/F_GETOWN

This usage went away in glibc 2.20, and the simplest remedy is just to omit mention of it.

futex.2

Michael Kerrisk

FUTEX_CLOCK_REALTIME can now be used with FUTEX_WAIT

get_kernel_syms.2

Michael Kerrisk

Note that glibc does not support this system call

init_module.2

Michael Kerrisk

Glibc 2.23 removed last vestiges of support for this system call

ioctl_list.2

Heinrich Schuchardt

Include uapi/linux/wireless.h

Add the list of wireless IOCTLS.

Heinrich Schuchardt

Path to sockios.h

sockios.h is now in include/uapi

Heinrich Schuchardt

Add reference to netdevice.7

netdevice.7 describes most of the IOCTLS of sockios.h

Heinrich Schuchardt

Transfer structure (wireless.h IOCTLS)

The sole parameter to be passed to the wireless.h IOCTLS is of type struct iwreq*.

ioperm.2

Michael Kerrisk [Alex Henrie]

ioperm.2: Permissions are inherited across fork(2)

See https://bugzilla.kernel.org/show_bug.cgi?id=99911

iopl.2

Michael Kerrisk [Alex Henrie]

Permissions are not inherited across fork(2) or preserved on execve(2)

See https://bugzilla.kernel.org/show_bug.cgi?id=99901

lseek.2

Michael Kerrisk

FUSE now supports SEEK_HOLE and SEEK_DATA

Michael Kerrisk

NFS supports SEEK_HOLE and SEEK_DATA

Michael Kerrisk

SEE ALSO: add open(2)

madvise.2

Michael Kerrisk

Clarify MADV_HWPOISON wording to say that it applies to a page range

mknod.2

Michael Kerrisk

SEE ALSO: add mknod(1)

mount.2

Michael Kerrisk

SEE ALSO: add findmnt(8)

open.2

Michael Kerrisk

NOTES: mention existence of proc/PID/fd and /proc/PID/fdinfo

Mark Post [Petr Gajdos]

O_TMPFILE support is now provided by Btrfs

pipe.2

Michael Kerrisk [Eric Blake]

Note treatment of 'pipefd' on error

poll.2

Michael Kerrisk [Josh Triplett]

Document spurious EAGAIN error that can occur on other systems

Light reworking of text proposed by Josh Triplett.

readlink.2

Michael Kerrisk

Clarify EINVAL error description

recv.2

Heinrich Schuchardt

Equivalence to read()

Describe the recv(2)-read(2) and the recvfrom(2)-recv(2)

equivalences for zero-valued arguments.

Michael Kerrisk

MSG_WAITALL has no effect for datagram sockets

recv.2

cmsg.3

Nikola Forró

Fix type of cmsg_len member of cmsghdr structure

The type shown for cmsg_len member of cmsghdr structure is socklen_t,

but the actual

type used by glibc and the kernel is size_t.

The information was obtained from glibc source code:

<http://bit.ly/21m1RMp>

Michael Kerrisk

Note that cmsg_len is typed as socklen_t in POSIX.1

sched_setaffinity.2

Michael Kerrisk [Florian Weimer, Florian Weimer]

Warn that CPU_ALLOC() may allocate a slightly CPU set than requested

Michael Kerrisk [Florian Weimer]

Add reference to CPU_ALLOC(3)

sched_setattr.2

Michael Kerrisk [Akihiro Suda]

EPERM depends on affinity mask of target thread, not calling thread

select.2

Michael Kerrisk [Josh Triplett]

Document spurious EAGAIN error that can occur on other systems

Light reworking of text proposed by Josh Triplett.

Nikos Mavrogiannopoulos

Mention the 'fd_set' size limitation early and refer to poll(2)

Change this because of the serious limitation of select()

imposing a limit on the range of file descriptors that

can

be monitored. This is currently mentioned too late in the documentation (in the NOTES section). The man page should warn early and refer to poll(2) as soon as possible.

Michael Kerrisk

Add details on the glibc fixed-size fd_set limitation

No modern application should use select() on Linux.

select_tut.2

Michael Kerrisk

Some readability fixes to example program

Michael Kerrisk

Better variable names in example program

Michael Kerrisk

Simplify 'if' logic in example program

Michael Kerrisk

Use correct type (socklen_t) for addrlen

semctl.2

Michael Kerrisk [Davidlohr Bueso, Manfred Spraul, Philip Semanchuk]

NOTES: note when 'sempid' is set on various implementations

See https://bugzilla.kernel.org/show_bug.cgi?id=112271 and

<http://thread.gmane.org/gmane.linux.kernel/2162754/>

Subject: [PATCH] Don't set sempid in semctl syscall.

Date: 2016-02-26 12:21:38 GMT

semop.2

Michael Kerrisk

Tweak comment describing 'sempid'

sendfile.2

Askar Safin

Fix incorrect description in text referring to splice(2)

Michael Kerrisk

SEE ALSO: add copy_file_range(2)

setpgid.2

Michael Kerrisk

Correct/simplify FTM requirements for BSD setpgrp() and getpgrp()

signalfd.2

Michael Kerrisk

Note that signalfd info is available in /proc/PID/fdinfo

sigprocmask.2

Michael Kerrisk [Mike Frysinger]

Explicitly refer the reader to sigsetops(3)

This man page did not make it obvious which functions should be used for manipulating signals sets, nor where those functions were documented.

socketpair.2

Michael Kerrisk [Eric Blake]

Note treatment of 'sv' on error

splice.2

Askar Safin

Improve description of 0 return value.

See https://bugzilla.kernel.org/show_bug.cgi?id=90911

statfs.2

Michael Kerrisk [Jakub Wilk]

Use consistent case for hex constants

sync.2

Christoph Hellwig

Clarify description and document the Linux data integrity guarantees

syscall.2

Mike Frysinger

Add more architectures and improve error documentation

Move the error register documentation into the main table rather than listing them in sentences after the fact.

Add sparc error return details.

Add details for alpha/arc/m68k/microblaze/nios2/powerpc/superh/tile/xtensa.

syscalls.2

Michael Kerrisk

Add copy_file_range(2)

times.2

Kondo, Naoya

Fix an incorrect description in NOTES

The text has an incorrect description in NOTES, it says that $(2^{32}/\text{HZ}) - 300$ is about 429 million. It is correct only if $\text{HZ}=10$ which does not look common today. So just removing "(i.e., about 429 million)" is good enough.

truncate.2

Michael Kerrisk

SEE ALSO: add truncate(1)

uselib.2

Michael Kerrisk

Mention CONFIG_USELIB

Michael Kerrisk

Note that glibc does not support this (obsolete) system call

wait.2

wait4.2

Michael Kerrisk

Rename the "status" argument to "wstatus"

The fact that `exit(3)/_exit(2)` has an argument called "status" and the same name is used in the arguments to the `wait*()` calls can a little too easily lead the user into thinking that the two arguments hold the same information, when of course they don't. So, use a different name for the argument of the `wait*()` functions, to reduce the chances of such confusion.

backtrace.3

Michael Kerrisk [Martin Gebert]

Small fixes to example program

clearenv.3

Michael Kerrisk [Matt Zimmerman]

Clarify the use and effect of `clearenv()`

See <http://bugs.debian.org/679323>

Michael Kerrisk

Variables can be added to the environment after calling `clearenv()`

clog10.3

Michael Kerrisk

Show an alternative equivalence for `clog10()`

Michael Kerrisk

Update CONFORMING TO

Fix grammar error and add C11.

dl_iterate_phdr.3

Michael Kerrisk [Paul Pluzhnikov]

Describe 'struct dl_phdr_info' fields added in glibc 2.4

See https://bugzilla.kernel.org/show_bug.cgi?id=103011

Michael Kerrisk [Simon Que]

Note that first object visited by 'callback' is the main program

See https://bugzilla.kernel.org/show_bug.cgi?id=94141

errno.3

Michael Kerrisk

Add some explanation of ENOENT error

exec.3

Michael Kerrisk

SEE ALSO: add system(3)

exp.3

Michael Kerrisk [Joachim Wuttke]

SEE ALSO: add expm1(3)

fopen.3

Michael Kerrisk

SEE ALSO: add open_memstream(3)

fts.3

Michael Kerrisk

BUGS: glibc-2.23 now has LFS support for the fts functions

gamma.3

Michael Kerrisk [Alan Cox]

gamma() was documented in SVID 2

getaddrinfo.3

Michael Kerrisk [Andreas Schwab, Orion Poplawski]

Update FTM requirements for glibc 2.22

Since glibc 2.22 getaddrinfo() etc. are only declared for
POSIX.1-2001 or later.

getcwd.3

Michael Kerrisk

SEE ALSO: add pwd(1)

opendir.3

Michael Kerrisk

Help the reader by explicitly mentioning the use of `readdir(3)`

`perror.3`

Michael Kerrisk

Suggest use of `strerror(3)` in place of deprecated `'sys_errlist'`

`posix_fallocate.3`

J r mie Galarneau

ERRORS: add `EINTR`

The glibc implementation of `posix_fallocate()`, which calls `fallocate()`, may be interrupted. The `fallocate()` emulation also makes use of `pread()/pwrite()`, which may also be interrupted.

`posix_memalign.3`

Michael Kerrisk [Eric Blake]

Note `posix_memalign()`'s treatment of `'memptr'` on error

`pthread_setaffinity_np.3`

Michael Kerrisk

SEE ALSO: add

`CPU_SET(3)`

`queue.3`

Dr. Tobias Quathamer

Remove double `CONFORMING TO` section

`rcmd.3`

Nikola Forr 

Add missing condition concerning `.rhosts` file

The list of conditions determining if `iruserok()` and `ruserok()` functions automatically fail is incomplete. According to glibc source code, the functions also fail if the `.rhosts` file is hard linked anywhere.

`setbuf.3`

Michael Kerrisk

SEE ALSO: add `stdbuf(1)`

`setjmp.3`

Michael Kerrisk

Rewrite and merge `longjmp()/siglongjmp()` discussion into this page

The discussion of nonlocal gotos is much easier to read if `setjmp()` and `longjmp()` are discussed in the same page. While we're at it, rework almost the entire text and add several more details.

Michael Kerrisk

Note the interactions of `longjmp()` and non-async-signal-safe functions
POSIX.1-2008 TC2 adds explicit text on this point.

See <http://austingroupbugs.net/view.php?id=516#c1195>

Michael Kerrisk

Explain why nonlocal gotos make code harder to maintain

Michael Kerrisk

Reword warning on `longjmp()` to function that has already returned

Michael Kerrisk

Remove reference to obsolete `_XOPEN_SOURCE_EXTENDED`

`sleep.3`

Michael Kerrisk

SEE ALSO: add `sleep(1)`

`strftime.3`

Michael Kerrisk [Jeremy Harris]

Note which 'tm' fields are used to calculate each output string

See https://bugzilla.redhat.com/show_bug.cgi?id=1162218

`strlen.3`

Michael Kerrisk [Alan Aversa]

CONFORMING TO: add C11

`system.3`

Michael Kerrisk

SEE ALSO: add `execve(2)`

`termios.3`

Dr. Tobias Quathamer

Document line length in canonical mode

See https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/tree/drivers/tty/n_tty.c#n1673

See <https://bugs.debian.org/797479>

Michael Kerrisk

SEE ALSO: add `tty(1)`

Michael Kerrisk [Peter Hurley]

Further improvements to recent tweaks of canonical mode 4096 char limit

`timegm.3`

Michael Kerrisk [Stephen Hurd, Mats Wichmann]

Remove sample implementation of `timegm()`

Stephen and Mats both question the wisdom of showing a portable

non-thread-safe implementation of `timegm()`, and I find it

hard to disagree. So, remove this code.

See https://bugzilla.kernel.org/show_bug.cgi?id=103701

Michael Kerrisk

Expand DESCRIPTION a little

st4.4

Dr. Tobias Quathamer

Remove spurious copyright section

tty_ioctl.4

Michael Kerrisk

SEE ALSO: add ldattach(1)

elf.5

Michael Kerrisk [Gabriel Corona, Mike Frysinger]

Fix description of STV_PROTECTED

Michael Kerrisk

Improve description of STV_DEFAULT

Michael Kerrisk

Improve description of STV_HIDDEN

Chris Pick

Remove erroneous, duplicate SHN_* section

Michael Kerrisk

[Chris Pick]

Reword discussion of range values a little

gai.conf.5

Michael Kerrisk

Add VERSIONS section

group.5

Michael Kerrisk

SEE ALSO: add groups(2)

SEE ALSO: add gpasswd(1)

SEE ALSO: add sg(1)

SE ALSO: add gshadow(5)

SEE ALSO: add chgrp(1)

locale.5

Marko Myllynen [Mike Frysinger]

tel + fax are deprecated

nsswitch.conf.5

Nikola Forró

Update NSS compatibility mode description

utmp.5

Michael Kerrisk

SEE ALSO: add lslogins(1)

aio.7

Andreas Gruenbacher

Improve example

When `aio_sigevent.sigev_notify` is set to `SIGEV_SIGNAL`, signal handlers called for asynchronous I/O operations will have `si->si_code` set to `SI_ASYNCIO`. Check to make sure that `si->si_value.sival_ptr` is defined.

capabilities.7

Michael Kerrisk

Explain safety check for capability-dumb binaries

Michael Kerrisk

SEE ALSO: add `sg(1)`, `su(1)`

SEE ALSO: add `id(1)`, `group(5)`, `passwd(5)`

credentials.7

Michael Kerrisk

SEE ALSO: add `groups(2)`

environ.7

Michael Kerrisk

Describe the Bourne "NAME=value command" syntax

Michael Kerrisk

Add some details describing how shell's environment is initialized

Michael Kerrisk

Note that child of `fork(2)` inherits copy of parent's environment

Michael Kerrisk

SEE ALSO: add `pam_env(3)`

epoll.7

Michael Kerrisk

Mention that epoll info is available via `/proc/PID/fdinfo`

fanotify.7

Michael Kerrisk

Refer reader to `proc(5)` for info on `/proc/PID/fdinfo` fanotify entries

feature_test_macros.7

Michael Kerrisk

Add a summary of some FTM key points

Michael Kerrisk

Give an early hint about some macros being defined by default

Michael Kerrisk

Clarify relation between `_XOPEN_SOURCE >=500` and `_XOPEN_SOURCE_EXTENDED`

Emphasize that defining `_XOPEN_SOURCE >=500` produces same

effects as defining `_XOPEN_SOURCE_EXTENDED`.

Michael Kerrisk

Note that man pages don't mention `_XOPEN_SOURCE_EXTENDED`
As per previous commit, mention of `_XOPEN_SOURCE_EXTENDED`
has generally been removed from the man pages.

Michael Kerrisk

Note effects of "cc -std=c99" and "cc -std=c11"

Michael Kerrisk

Clarify some `_ISOC99_SOURCE` / `_DEFAULT_SOURCE` details

Michael Kerrisk

Clarify that `_XOPEN_SOURCE_EXTENDED` is obsolete
Since SUSv2, `_XOPEN_SOURCE_EXTENDED` is no longer specified
in the standard.

inotify.7

Michael Kerrisk

Refer reader to `proc(5)` for info on `/proc/PID/fdinfo` inotify entries

ip.7

Eric Dumazet

Document `IP_BIND_ADDRESS_NO_PORT` socket option

mq_overview.7

Michael Kerrisk

Note that the close-on-exec flag is automatically set on MQ descriptors

namespaces.7

Michael Kerrisk

SEE ALSO: add `lsns(1)`

`lsns(1)` was recently

added in `util-linux`, probably to appear

in next release (2.28?).

pipe.7

Michael Kerrisk [Jason Vas Dias]

Clarify that I/O signalling requires use of both `F_SETOWN` and `O_ASYNC`

Michael Kerrisk

SEE ALSO: add `mkfifo(1)`

signal.7

Michael Kerrisk

Note the interactions of `longjmp()` and non-async-signal-safe functions

See <http://austingroupbugs.net/view.php?id=516#c1195>.

socket.7

Michael Kerrisk

SEE ALSO: add `pcap(3)`

SEE ALSO: add `wireshark(1)` and `tcpdump(8)`

standards.7

Michael Kerrisk
Add POSIX.1-2008 TC2 (POSIX.1-2016)

svipc.7

Michael Kerrisk
Tweak description of 'sempid'
Michael Kerrisk
SEE ALSO: add lsipc(1)

symlink.7

Michael Kerrisk [Zefram]
Some "magic" symlinks have permissions other than 0777
See <https://bugs.debian.org/743525>

time.7

Michael Kerrisk
SEE ALSO: add timeout(1)
SEE ALSO: add ntp_adjtime(3) and ntp_gettime(3)

unicode.7

Dr. Tobias Quathamer
Document private use areas
See <https://bugs.debian.org/285444>

unix.7

Heinrich Schuchardt
Add example
A complete example demonstrating the usage of sockets for local interprocess communication is added.
Michael Kerrisk
Introduce term "sequenced-packet" for SOCK_SEQPACKET
Michael Kerrisk
Some wording improvements

==== Changes in man-pages-4.06 =====

Released: 2016-05-09, Oslo

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

cgroups.7

Serge Hallyn, Michael Kerrisk
New page documenting cgroups

cgroup_namespaces.7

Michael Kerrisk [Serge Hallyn]
New page describing cgroup namespaces

Newly documented interfaces in existing pages

clone.2

Michael Kerrisk
Document CLONE_NEWCGROUP

readv.2

Christoph Hellwig
Document preadv2() and pwritev2()

setns.2

Michael Kerrisk
Document CLONE_NEWCGROUP

unshare.2

Michael Kerrisk
Document CLONE_NEWCGROUP

Changes to individual pages

clock_getres.2

Michael Kerrisk [Rasmus Villemoes]
Note that coarse clocks need architecture and VDSO support

clone.2

fork.2

Nikola Forró
Document ERESTARTNOINTR error code

clone.2

Michael Kerrisk [Colin Ian King]
ERRORS: add EINVAL for improperly aligned 'child_stack' value

execve.2

Michael Kerrisk [Valery Reznic]
Since Linux 2.6.28, recursive script interpretation is supported

fcntl.2

Michael Kerrisk
Note that mandatory locking is now governed by a configuration option

fsync.2

Michael Kerrisk [Georg Sauthoff]
Give some examples of files where sync can fail with EINVAL

getrlimit.2

Michael Kerrisk
SEE ALSO: add cgroups(7)

ioctl_fat.2

Heinrich Schuchardt
Use %04x to print volume ID
Leading zeroes
should be used when display a FAT volume ID.

ioprio_set.2

Michael Kerrisk

SEE ALSO: add cgroups(7)

lseek.2

Michael Kerrisk

Note that 'off_t' is an integer data type defined by POSIX

memfd_create.2

Michael Kerrisk

Note that memfd_create() does not have a glibc wrapper

mount.2

Michael Kerrisk

MS_MANDLOCK requires CAP_SYS_ADMIN (since Linux 4.5)

quotactl.2

Michael Kerrisk

Document Q_GETNEXTQUOTA and Q_XGETNEXTQUOTA

Michael Kerrisk

Rework/reorder ERRORS list

Make into a single alphabetically ordered list

Michael Kerrisk

Note kernel version that removed Q_GETSTATS

Michael Kerrisk

Add kernel version for G_GETINFO, Q_SETINFO, and Q_GETFMT

readv.2

Michael Kerrisk

Clarify that 'size_t' and 'ssize_t' are integer types specified in POSIX

semctl.2

Michael Kerrisk

From kernel 4.6, Linux now updates 'sempid' on SETALL operations

sigaction.2

Michael Kerrisk

Document SEGV_BNDERR

Michael Kerrisk

Document SEGV_PKUERR

syscalls.2

Michael Kerrisk

Add preadv2() and pwritev2()

write.2

Michael Kerrisk

Clarify that 'size_t' and 'ssize_t' are integer types specified in POSIX

makedev.3

Mike Frysinger

Use `<sys/sysmacros.h>` in SYNOPSIS

Defining these functions via `<sys/types.h>` causes problems for some folk. As noted by Zack Wein:

libstdc++ force-enables `_GNU_SOURCE`, which means people writing in C++ `_can't_` avoid these nonstandard macros by using a strict conformance mode.

Since glibc has basically always used `<sys/sysmacros.h>`, update the docs to have people include that instead.

Michael Kerrisk

NOTES: mention that `<sys/types.h>` may also define these macros

popen.3

Nikola Forró

RETURN VALUE: describe successful case

Reference:

<http://pubs.opengroup.org/onlinepubs/9699919799/functions/popen.html>

<http://pubs.opengroup.org/onlinepubs/9699919799/functions/pclose.html>

strtod.3

Michael Kerrisk [Ed Avis]

Improve a detail in RETURN VALUE

core.5

Michael Kerrisk

Document `/proc/sys/kernel/core_pipe_limit`

locale.5

Marko Myllynen

Adjust `LC_IDENTIFICATION` / abbreviation

Tiny tweak to locale.5 based on ISO/IEC TR 14652:

<http://www.open-std.org/jtc1/SC22/WG20/docs/n972-14652ft.pdf>

Marko Myllynen

Update `LC_ADDRESS` after glibc change

This patch updates locale.5 to match the recent glibc change in commit `a837257199ffab76237385b830cc7b6179fc2f18`

Marko Myllynen

Complete `LC_COLLATE`

Here's the first attempt to (almost) complete the locale.5 manual page by documenting all (but perhaps one) of the missing `LC_COLLATE` keywords.

Mike Frysinger

`country_car`: Add a better description

nsswitch.conf.5

Marko Myllynen

Document group merging

Document the recently merged glibc group merge support.

Glibc commit [ced8f8933673f4efda1d666d26a1a949602035ed](https://sourceware.org/glibc/wiki/Proposals/GroupMerging)

<https://sourceware.org/glibc/wiki/Proposals/GroupMerging>

proc.5

Michael Kerrisk

Move /proc/PID/cgroup discussion to cgroups(7) page

Michael Kerrisk

Add some background on why /proc/PID/mountinfo was added

Michael Kerrisk

Improve description of /proc/PID/mountinfo 'root' field

Michael Kerrisk

Add pointer to cgroups(7) for documentation of /proc/cgroups

Michael Kerrisk

Add reference to core(5) for info on /proc/sys/kernel/core_pipe_limit

cpuset.7

Michael Kerrisk

SEE ALSO: add cgroups(7)

ip.7

Benjamin Poirier

Fix incorrect sockopt name

"IP_LEAVE_GROUP" does not exist. It was perhaps a confusion with

MCAST_LEAVE_GROUP. Change the text to IP_DROP_MEMBERSHIP which has

the same function as MCAST_LEAVE_GROUP and is documented in the
ip.7 man page.

Reference:

Linux kernel net/ipv4/ip_sockglue.c do_ip_setsockopt()

namespaces.7

Michael Kerrisk

SEE ALSO: add cgroups(7), cgroup_namespaces(7)

vdso.7

Zubair Lutfullah Kakakhel [Mike Frysinger]

Update for MIPS

Document the symbols exported by the MIPS VDSO.

VDSO support was added from kernel 4.4 onwards.

See <https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/log/arch/mips/vdso>

Michael Kerrisk [Rasmus Villemoes]

The `__kernel_clock_*` interfaces don't support `*_COARSE` clocks on PowerPC

ld.so.8

Michael Kerrisk [Alon Bar-Lev]

Document use of \$ORIGIN, \$LIB, and \$PLATFORM in environment variables

These strings are meaningful in LD_LIBRARY_PATH and LD_PRELOAD.

==== Changes in man-pages-4.07 =====

Released: 2016-07-17, Ulm

Contributors

The

following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten
pages

ioctl_fideduperange.2

Darrick J. Wong [Christoph Hellwig, Michael Kerrisk]
New page documenting the FIDEDUPERANGE ioctl
Document the FIDEDUPERANGE ioctl, formerly known as
BTRFS_IOC_EXTENT_SAME.

ioctl_ficlonerange.2

Darrick J. Wong [Christoph Hellwig, Michael Kerrisk]
New page documenting FICLONE and FICLONERANGE ioctls
Document the FICLONE and FICLONERANGE ioctls, formerly known as
the BTRFS_IOC_CLONE and BTRFS_IOC_CLONE_RANGE ioctls.

nextup.3

Michael Kerrisk
New page documenting nextup(), nextdown(), and related functions

mount_namespaces.7

Michael Kerrisk [Michael Kerrisk]

New page describing mount namespaces

Newly documented interfaces in existing pages

mount.2

Michael Kerrisk

Document flags used to set propagation type

Document MS_SHARED, MS_PRIVATE, MS_SLAVE, and MS_UNBINDABLE.

Michael Kerrisk

Document the MS_REC flag

ptrace.2

Michael Kerrisk [Kees Cook, Jann Horn, Eric W. Biederman, Stephen Smalley]

Document ptrace access modes

proc.5

Michael Kerrisk

Document /proc/[pid]/timerslack_ns

Michael Kerrisk

Document /proc/PID/status 'Ngid' field

Michael Kerrisk

Document /proc/PID/status fields: 'NStgid', 'NSpid', 'NSpgid', 'NSsid'

Michael Kerrisk

Document /proc/PID/status 'Umask' field

New and changed links

preadv2.2

pwritev2.2

Michael Kerrisk

New links to readv(2)

nextdown.3

nextdownf.3

nextdownl.3

nextupf.3

nextupl.3

Michael Kerrisk

New links to nextup(3)

Changes to individual pages

ldd.1

Michael Kerrisk

Add a little more detail on why ldd is unsafe with untrusted executables

Michael Kerrisk

Add more detail on the output of ldd

localedef.1

Marko Myllynen

Drop --old-style

description

The glibc upstream decided to drop localedef(1) --old-style option [1] altogether, I think we can do the same with localedef(1), the option hasn't done anything in over 16 years and I doubt anyone uses it.

add_key.2

Mitch Walker

Empty payloads are not allowed in user-defined keys

chroot.2

Michael Kerrisk

SEE ALSO: add pivot_root(2)

clone.2

Michael Kerrisk

Add reference to mount_namespaces(7) under CLONE_NEWNS description

fork.2

Michael Kerrisk

Add ENOMEM error for PID namespace where "init" has died

futex.2

Michael Kerrisk

Correct an ENOSYS error description

Since Linux 4.5, FUTEX_CLOCK_REALTIME is allowed with FUTEX_WAIT.

Michael Kerrisk [Darren Hart]

Remove crufty text about FUTEX_WAIT_BITSET interpretation of timeout

Since Linux 4.5, FUTEX_WAIT also understands

FUTEX_CLOCK_REALTIME.

Michael Kerrisk [Thomas

Gleixner]

Explain how to get equivalent of FUTEX_WAIT with an absolute timeout

Michael Kerrisk

Describe FUTEX_BITSET_MATCH_ANY

Describe FUTEX_BITSET_MATCH_ANY and FUTEX_WAIT and FUTEX_WAKE equivalences.

Michael Kerrisk

Note that at least one bit must be set in mask for BITSET operations

At least one bit must be set in the 'val3' mask supplied for the
FUTEX_WAIT_BITSET and FUTEX_WAKE_BITSET operations.

Michael Kerrisk [Thomas Gleixner, Darren Hart]

Fix descriptions of various timeouts

Michael Kerrisk

Clarify clock default and choices for FUTEX_WAIT

getitimer.2

Michael Kerrisk

Substantial rewrites to various parts of the page

Michael Kerrisk [Tom Callaway]

Change license to note that page may be modified

The page as originally written carried text that said the page may
be freely distributed but made no statement about modification.

In the 20+ years since it was first written, the page has in fact
seen repeated, sometimes substantial, modifications, and only a
small portion of the original text remains. One could I suppose
rewrite the last few pieces that remain from the original,
but as the largest contributor to the pages existing text,
I'm just going to relicense it to explicitly note that
modification is permitted. (I presume the failure by the
original author to grant permission to modify was simply an
oversight; certainly, the large number of people who have
changed the page have taken that to be the case.)

See also https://bugzilla.kernel.org/show_bug.cgi?id=118311

get_mempolicy.2

Michael Kerrisk [Jörn Engel]

Correct rounding to 'maxnodes' (bits, not bytes)

Michael Kerrisk [Jörn Engel]

Fix prototype for get_mempolicy()

In numaif.h, 'addr'

is typed as 'void *'

getpriority.2

Michael Kerrisk

Make discussion of RLIMIT_NICE more prominent

The discussion of RLIMIT_NICE was hidden under the EPERM error,
where it was difficult to find. Place some relevant text in
DESCRIPTION.

Michael Kerrisk

Note that getpriority()/setpriority deal with same attribute as nice(2)

Michael Kerrisk [Robin Kuzmin]

Clarify equivalence between lower nice value and higher priority

get_robust_list.2

Michael Kerrisk

get_robust_list() is governed by PTRACE_MODE_READ_REALCREDS

ioctl.2

Michael Kerrisk

SEE ALSO: add ioctl_fideduperange(2) and ioctl_ficlonerange(2)

kcmp.2

Michael Kerrisk

kcmp() is governed by PTRACE_MODE_READ_REALCREDS

Shawn Landden

Note about SECURITY_YAMA

kill.2

Michael Kerrisk [John Wiersba]

Clarify the meaning if sig==0

lookup_dcookie.2

Michael Kerrisk

SEE ALSO: add oprofile(1)

mmap.2

Michael Kerrisk [Rahul Bedarkar]

EXAMPLE: for completeness, add munmap() and close() calls

mount.2

Michael Kerrisk

Restructure discussion of 'mountflags' into functional groups

The existing text makes no differentiation between different "classes" of mount flags. However, certain flags such as MS_REMOUNT, MS_BIND, MS_MOVE, etc. determine the general type of operation that mount() performs. Furthermore, the choice of which class of operation to perform is performed in a certain order, and that order is significant if multiple flags are specified. Restructure and extend the text to reflect these details.

Michael Kerrisk

Relocate text on multimounting and mount stacking to NOTES

The text was somewhat out of place in its previous location; NOTES is a better location.

Michael Kerrisk

Remove version numbers attached to flags

that are modifiable on remount

This information was simply bogus. Mea culpa.

Michael Kerrisk

Refer reader to mount_namespaces(7) for details on propagation types

Michael Kerrisk

SEE ALSO: s/namespaces(7)/mount_namespaces(7)/

Omar Sandoval

MS_BIND still ignores mountflags

This is clear from the `do_mount()` function in the kernel as of v4.6.

Michael Kerrisk

Note the default treatment of `ATIME` flags during `MS_REMOUNT`

The behavior changed in Linux 3.17.

Michael Kerrisk

Clarify that `MS_MOVE` ignores remaining bits in 'mountflags'

Michael Kerrisk

Note kernel version that added `MS_MOVE`

Michael Kerrisk

`MS_NOSUID` also disables file capabilities

Michael Kerrisk

Relocate/demote/rework text on `MS_MGC_VAL`

The use of this constant has not been needed for 15 years now.

Michael Kerrisk

Clarify that 'source' and 'target' are pathnames, and can refer to files

Michael Kerrisk

Update example list of filesystem types

Put more modern examples in; remove many older examples.

Michael Kerrisk

`MS_LAZYTIME` and `MS_RELATIME` can be changed on remount

Michael Kerrisk

Explicitly note that `MS_DIRSYNC` setting cannot be changed on remount

Michael Kerrisk

Move text describing 'data' argument higher up in page

In preparation for other reworking.

Michael Kerrisk

Since Linux 2.6.26, bind mounts can be made read-only

open.2

Eric Biggers

Refer to correct functions in description of `O_TMPFILE`

pciconfig_read.2

Michael Kerrisk [Tom Callaway]

Change license to note that page may be modified

Niki Rahimi, the author of this page, has agreed that it's okay to change the license to note that the page can be modified.

See https://bugzilla.kernel.org/show_bug.cgi?id=118311

perf_event_open.2

Michael Kerrisk

If `pid > 0`, the operation is governed by `PTRACE_MODE_READ_REALCREDS`

Jann Horn

Document new `perf_event_paranoid` default

Keno Fischer [Vince Weaver]

Add a note that `dyn_size` is omitted if `size == 0`

The `perf_output_sample_ustack` in `kernel/events/core.c` only writes a single 64 bit word if it can't dump the user registers. From the current version of the man page, I would have expected two 64 bit words (one for `size`, one for `dyn_size`). Change the man page to make this behavior explicit.

prctl.2

Michael Kerrisk

Some wording improvements in timer slack description

Michael Kerrisk

Refer reader to discussion of `/proc/[pid]/timerslack_ns`

Under discussion of `PR_SET_TIMERSLACK`, refer the reader to the `/proc/[pid]/timerslack_ns` file, documented in `proc(5)`.

process_vm_readv.2

Michael Kerrisk

Rephrase permission rules in terms of a `ptrace` access mode check

ptrace.2

Michael Kerrisk [Jann Horn]

Update Yama `ptrace_scope` documentation

Reframe the discussion in terms of `PTRACE_MODE_ATTACH` checks, and make a few other minor tweaks and additions.

Michael Kerrisk, Jann Horn

Note that user namespaces can be used to bypass Yama protections

Michael Kerrisk

Note that `PTRACE_SEIZE` is subject to a `ptrace` access mode check

Michael Kerrisk

Rephrase `PTRACE_ATTACH` permissions in terms of `ptrace` access mode check

quotactl.2

Michael Kerrisk [Jacob Willoughby]

'`dqb_curspace`' is in bytes, not blocks

This error appears to have been injected into `glibc` when copying some headers from BSD.

See <https://bugs.debian.org/825548>

recv.2

Michael Kerrisk [Tom Gundersen]

With pending 0-length datagram `read()` and `recv()` with `flags == 0` differ

setfsuid.2

setfsuid.2

Jann Horn [Michael Kerrisk]

Fix note about errors from

the syscall wrapper

See sysdeps/unix/sysv/linux/i386/setfsuid.c in glibc-2.2.1.

(This code is not present in modern glibc anymore.)

Michael Kerrisk

Move glibc wrapper notes to "C library/kernel differences" subsection

sysinfo.2

Michael Kerrisk

Rewrite and update various pieces

umask.2

Michael Kerrisk

NOTES: Mention /proc/PID/status 'Umask' field

umount.2

Michael Kerrisk

SEE ALSO: add mount_namespaces(7)

unshare.2

Michael Kerrisk

Add reference to mount_namespaces(7) under CLONE_NEWNS description

utimensat.2

Michael Kerrisk [Rob Landley]

Note that the glibc wrapper disallows pathname==NULL

wait.2

Michael Kerrisk

Since Linux 4.7, __WALL is implied if child being ptraced

Michael Kerrisk

waitid() now (since Linux 4.7) also supports __WNOTHREAD/__WCLONE/__WALL

assert.3

Nikos Mavrogiannopoulos

Improved description

Removed text referring to text

not being helpful to users. Provide

the error text instead to allow the reader to determine whether it is helpful. Recommend against using NDEBUB for programs to exhibit deterministic behavior. Moved description ahead of recommendations.

Michael Kerrisk

Clarify details of message printed by assert()

fmax.3

fmin.3

Michael Kerrisk

SEE ALSO: add fdim(3)

getauxval.3

Cownie, James H

Correct AT_HWCAP result description

inet_pton.3

Stefan Puiu

Mention byte order

malloc_hook.3

Michael Kerrisk

glibc 2.24 removes __malloc_initialize_hook

memmem.3

Michael Kerrisk [Shawn Landden]

Note that memmem() is present on some other systems

mkdtemp.3

mktemp.3

Michael Kerrisk

SEE ALSO: add mktemp(1)

printf.3

Michael Kerrisk [Shawn Landden]

Note support in other C libraries for %m and %n

strcasecmp.3

Michael Kerrisk [Ori Avtalion]

Make details

of strncasecmp() comparison clearer

streat.3

Michael Kerrisk

Add a program that shows the performance characteristics of streat()

In honor of Joel Spolsky's visit to Munich, let's start educating
Schlemiel The Painter.

strtoul.3

Michael Kerrisk

SEE ALSO: add a64l(3)

strxfrm.3

Michael Kerrisk [Florian Weimer]

Remove NOTES section

strxfrm() and strncpy() are not precisely equivalent in the
POSIX locale, so this NOTES section was not really correct.

See https://bugzilla.kernel.org/show_bug.cgi?id=104221

console_codes.4

console_ioctl.4

tty.4

vcs.4

charsets.7

Marko Myllynen

Remove console(4) references

0f9e647 removed the obsolete console(4) page but we still have few references to it. The patch below removes them or converts to refs to console_ioctl(4) where appropriate.

console_ioctl.4

Michael Kerrisk [Chris Gassib]

The argument

to KDGETMODE is an 'int'

lirc.4

Alec Leamas

Update after upstreamed lirc.h, bugfixes.

st.4

Kai Mäkisara

Fix description of read() when block is larger than request

Kai Mäkisara

Update MTMKPART for kernels >= 4.6

Update the description of the MTMKPART operation of MTIOCTOP to match the changes in kernel version 4.6.

charmap.5

Marko Myllynen

Clarify keyword syntax

Updates charmap(5) to match the syntax all the glibc charmap files are using currently.

elf.5

Michael Kerrisk

SEE ALSO: add readelf(1)

locale.5

Marko Myllynen

Document missing keywords, minor updates

Marko Myllynen

Clarify keyword syntax

Marko Myllynen

Adjust conformance

proc.5

namespaces.7

Michael Kerrisk

Move /proc/PID/mounts information to proc(5)

There was partial duplication, and some extra information
in namespaces(7). Move everything

to proc(5).

proc.5

Michael Kerrisk

/proc/PID/fd/* are governed by PTRACE_MODE_READ_FSCREDS

Permission to dereference/readlink /proc/PID/fd/* symlinks is
governed by a PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Michael Kerrisk

/proc/PID/timerslack_ns is governed by PTRACE_MODE_ATTACH_FSCREDS

Permission to access /proc/PID/timerslack_ns is governed by
a PTRACE_MODE_ATTACH_FSCREDS ptrace access mode check.

Michael Kerrisk

Document /proc/PID/{maps,mem,pagemap} access mode checks

Permission to access /proc/PID/{maps,pagemap} is governed by a
PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Permission to access /proc/PID/mem is governed by a
PTRACE_MODE_ATTACH_FSCREDS ptrace access mode check.

Michael Kerrisk

Note /proc/PID/stat fields that are governed by PTRACE_MODE_READ_FSCREDS

Michael Kerrisk

/proc/PID/{cwd,exe,root} are

governed by PTRACE_MODE_READ_FSCREDS

Permission to dereference/readlink /proc/PID/{cwd,exe,root} is
governed by a PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Michael Kerrisk

/proc/PID/io is governed by PTRACE_MODE_READ_FSCREDS

Permission to access /proc/PID/io is governed by
a PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Michael Kerrisk

/proc/PID/{personality,stack,syscall} are governed by PTRACE_MODE_ATTACH_FSCREDS

Permission to access /proc/PID/{personality,stack,syscall} is
governed by a PTRACE_MODE_ATTACH_FSCREDS ptrace access mode check.

Michael Kerrisk

/proc/PID/{auxv,environ,wchan} are governed by PTRACE_MODE_READ_FSCREDS

Permission to access /proc/PID/{auxv,environ,wchan} is governed by
a PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Michael Kerrisk

Move shared subtree /proc/PID/mountinfo fields to mount_namespaces(7)

Move information on shared subtree fields in /proc/PID/mountinfo
to mount_namespaces(7).

Michael Kerrisk ["Yuming Ma()"]

Note that /proc/net is now virtualized per network namespace

Michael Kerrisk

Add references to mount_namespaces(7)

repertoiremap.5

Marko Myllynen

Clarify keyword syntax

utmp.5

Michael Kerrisk

SEE ALSO: add logname(1)

capabilities.7

Michael Kerrisk [Andy Lutomirski]

Note on SECURE_NO_CAP_AMBIENT_RAISE for capabilities-only environment

Michael Kerrisk

Add a detail on use of securebits

cgroup_namespaces.7

Michael Kerrisk

SEE ALSO: add namespaces(7)

cgroups.7

Michael Kerrisk

ERRORS: add mount(2) EBUSY error

cp1251.7

cp1252.7

iso_8859-1.7

iso_8859-15.7

iso_8859-5.7

koi8-r.7

koi8-u.7

Marko Myllynen

Add some charset references

Add some references to related charsets here and there.

credentials.7

Michael Kerrisk

SEE ALSO: add runuser(1)

SEE ALSO: add newgrp(1)

SEE ALSO: add sudo(8)

feature_test_macros.7

Michael Kerrisk

Emphasize that applications should not directly include <features.h>

man-pages.7

Michael Kerrisk

Clarify which sections man-pages provides man pages for

Michael Kerrisk [Josh Triplett]

Add a few more details on formatting conventions

Add some more details for Section 1 and 8 formatting.

Separate out formatting discussion into commands, functions,
and "general".

namespaces.7

Michael Kerrisk

/proc/PID/ns/* are governed by PTRACE_MODE_READ_FSCREDS

Permission to dereference/readlink /proc/PID/ns/* symlinks is
governed by a PTRACE_MODE_READ_FSCREDS ptrace access mode check.

Michael Kerrisk

Nowadays, file changes in /proc/PID/mounts are notified differently

Exceptional condition for select(), (E)POLLPRI for (e)poll

Michael Kerrisk

Remove /proc/PID/mountstats description

This is a duplicate of information in proc(5).

Michael Kerrisk

Refer to new mount_namespaces(7) for information on mount namespaces

netlink.7

Andrey Vagin

Describe netlink socket options

Michael Kerrisk

Rework version information

(No changes in technical details.)

pid_namespaces.7

Michael Kerrisk

SEE ALSO: add namespaces(7)

unix.7

Michael Kerrisk

Move discussion on pathname socket permissions to DESCRIPTION

Michael Kerrisk

Expand discussion of socket permissions

Michael Kerrisk

Fix statement about permissions needed to connect to a UNIX domain socket

Read permission is not required (verified by experiment).

Michael Kerrisk

Clarify ownership and permissions assigned during socket creation

Michael Kerrisk [Carsten Grohmann]

Update text on socket permissions on other systems

At least

some of the modern BSDs seem to check for write

permission on a socket. (I tested OpenBSD 5.9.) On Solaris 10,

some light testing suggested that write permission is still not checked on that system.

Michael Kerrisk

Note that `umask` / permissions have no effect for abstract sockets

W. Trevor King

Fix example code: 'ret' check after accept populates 'data_socket'

Michael Kerrisk

Move some abstract socket details to a separate subsection

Michael Kerrisk

Note that abstract sockets automatically disappear when FDs are closed

user_namespaces.7

Michael Kerrisk [Micha Zegan]

Clarify meaning of privilege in a user namespace

Having privilege in a user NS only allows privileged operations on resources governed by that user NS. Many privileged operations relate to resources that have no association with any namespace type, and only processes

with privilege in the initial user NS can perform those operations.

See https://bugzilla.kernel.org/show_bug.cgi?id=120671

Michael Kerrisk [Micha Zegan]

List the mount operations permitted by `CAP_SYS_ADMIN`

List the mount operations permitted by `CAP_SYS_ADMIN` in a noninitial users.

See https://bugzilla.kernel.org/show_bug.cgi?id=120671

Michael Kerrisk [Micha Zegan]

`CAP_SYS_ADMIN` allows mounting cgroup filesystems

See https://bugzilla.kernel.org/show_bug.cgi?id=120671

Michael Kerrisk

Clarify details of `CAP_SYS_ADMIN` and cgroup v1 mounts

With respect to cgroups version 1, `CAP_SYS_ADMIN` in the user namespace allows only `*named*` hierarchies to be mounted (and not hierarchies that have a controller).

Michael Kerrisk

Clarify `CAP_SYS_ADMIN` details for mounting `FS_USERNS_MOUNT` filesystems

Michael Kerrisk

Correct user namespace

rules for mounting `/proc`

Michael Kerrisk

Describe a concrete example of capability checking

Add a concrete example of how the kernel checks capabilities in an associated user namespace when a process attempts a privileged operation.

Michael Kerrisk

Correct kernel version where XFS added support for user namespaces

Linux 3.12, not 3.11.

Michael Kerrisk

SEE ALSO: add ptrace(2)

SEE ALSO: add cgroup_namespaces(7)

utf-8.7:

Shawn Landden

Include RFC 3629 and clarify endianness which is left ambiguous

The endianness is suggested by the order the bytes are displayed,
but the text is ambiguous.

==== Changes in man-pages-4.08 =====

Released: 2016-10-08, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
incorporated
in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

quotactl.2

Eugene Syromyatnikov [Michael Kerrisk]

Updated information regarding disk quota flags

Added information regarding DQF_SYS_FILE flag; updated definition of V1_DQF_RSQUASH, which has been defined privately and defined publicly as DQF_ROOT_SQUASH.

Eugene Syromyatnikov

Updated information regarding XFS-specific quotactl subcommands

Added information regarding

structure definitions used for

XFS-specific subcommands, updated flag constants, added information regarding ignored syscall arguments, added notes on usage of kernel UAPI header.

Eugene Syromyatnikov

Additions regarding project quotas

Added information regarding presence of project quotas.

bswap.3

Michael Kerrisk

New page documenting bswap_16(), bswap_32(), and bswap_64()

cgroups.7

Michael Kerrisk

Substantial rewrites, additions, and corrections.

Newly documented interfaces in existing pages

readv.2

Michael Kerrisk

Document the pwritev2() RWF_SYNC and RWF_DSYNC flags

proc.5

Michael Kerrisk

Document /proc/PID/seccomp

Jann Horn

Document /proc/[pid]/task/[tid]/children

Document the /proc/[pid]/task/[tid]/children interface from

CRIU, and more importantly, document why it's usually not

a good interface.

New and changed links

bswap_16.3

bswap_32.3

bswap_64.3

New link to new bswap.3

Global changes

Various pages

Michael Kerrisk

Fix section ordering

Various pages had sections in an order different from
that prescribed in man-pages(7).

Various pages

Michael Kerrisk [Mike Fryssinger]

Consistently use /proc/[pid] (not /proc/PID)

Various pages

Michael Kerrisk

Fix order of SEE ALSO entries

Entries should be ordered first by section, and then alphabetically

within the section.

Various pages

Michael Kerrisk

Order ERRORS alphabetically

Various pages

Michael Kerrisk

Remove section number from page self reference

Fix places where pages refer to the function that they describe and include a section number in that reference. Such references cause some HTML-rendering tools to create self-references

in the

page.

A few pages

Michael Kerrisk

Eliminate groff "cannot adjust line" warnings

Changes to individual pages

pldd.1

Michael Kerrisk [Carlos O'Donnell]

Note gdb(1) command that can be used as a replacement for pldd

Taken from Carlos O'Donnell's suggestion in

https://sourceware.org/bugzilla/show_bug.cgi?id=18035#c2

Michael Kerrisk

BUGS: pldd has not worked since glibc 2.19

accept.2

Michael Kerrisk

Mention epoll(7) alongside poll()/select()

Michael Kerrisk

Demote discussion of DECNet to NOTES

DECNet ceased to be important long ago...

adjtimex.2

Nikola Forró

Fix kernel version references

chroot.2

Michael Kerrisk

Note user namespace requirements for CAP_SYS_CHROOT

clone.2

Keno Fischer [Josh Triplett]

Adjust syscall prototype and expand CLONE_SETTLS description

Michael Kerrisk [Josh Triplett,

Josh Triplett]

Document raw syscall interfaces on various other architectures

Michael Kerrisk

Change types for 'ptid' and 'ctid' in syscall prototypes

These types changed from 'void *' to 'int *' back in Linux 3.8.

Michael Kerrisk

EINVAL is generated by glibc wrapper for NULL 'fn' or 'child_stack'

Clarify that this error is produced by the wrapper function, not

the underlying system call. In particular, the point is that the

raw system call can accommodate a NULL pointer for 'child_stack'.

Michael Kerrisk [Elliott Hughes]

Make the implications of CLONE_FILES more explicit

If CLONE_FILES is not set, the duplicated FDs nevertheless share

file offset and status flags via the open file description.

Michael Kerrisk

Mention kcmp() under notes

close.2

Michael Kerrisk

Add mention of the close-on-exec flag

Michael Kerrisk

Clarify discussion

noting that close() does not flush buffer cache

epoll_wait.2

Mike Crowe

Clarify that the timeout is measured against CLOCK_MONOTONIC

execve.2

Michael Kerrisk

Mention use of 'environ' to access environment list

Michael Kerrisk

Note that real UID, real GID, and supplementary GIDs are unchanged

fanotify_init.2

Heinrich Schuchardt

Update BUGS information

fcntl.2

Michael Kerrisk

Note an important detail of F_SETOWN permission rules for signals

F_SETOWN records the caller's credentials at the time of

the fcntl() call, and it is these saved credentials that

are used for subsequent permission checks.

Michael Kerrisk

Make the description of the effect of close-on-exec a little clearer

Michael Kerrisk

Clarify that F_GETFD and F_GETFL return flags via the function result

fork.2

Michael Kerrisk

PID of new process also does not match any existing session ID

fsync.2

Michael Kerrisk

SEE ALSO: add pwritev(2)

Since Linux 4.7, pwritev() has flags related to I/O integrity completion.

getdomainname.2

Michael Kerrisk

Note user namespace requirements for CAP_SYS_ADMIN

getgroups.2

Michael Kerrisk

Note user namespace requirements for CAP_SETGID

gethostname.2

Michael Kerrisk

Note user namespace requirements for CAP_SYS_ADMIN

getrlimit.2

Michael Kerrisk

Note user namespace semantics for CAP_SYS_RESOURCE

getsid.2

Michael Kerrisk

Rework description to be somewhat clearer

Michael Kerrisk

Correct the definition of "session ID"

getunwind.2

Michael Kerrisk

Simplify text referring to vdso(7)

The detail given here is redundant, since this info is also in vdso(7).

kcmp.2

Michael Kerrisk

Add an example program

kill.2

Michael Kerrisk

Note the user namespace requirement for CAP_KILL

killpg.2

Michael Kerrisk

Refer reader to kill(2) for signal permission rules

mlock.2

Sebastian Andrzej Siewior

Document that fork() after mlock() may be a bad idea in a RT process

mmap.2

Jann Horn

Describe treatment of 'offset' for MAP_ANONYMOUS

Michael Kerrisk [Seward de Groot]

Small improvement to description of MAP_SHARED

See https://sourceware.org/bugzilla/show_bug.cgi?id=6887

msgctl.2

msgget.2

msgop.2

semctl.2

semget.2

semop.2

shmctl.2

shmget.2

shmop.2

Michael Kerrisk

Note the user namespace requirements for CAP_IPC_OWNER

open.2

Michael Kerrisk

Clarify user namespace capability requirements for O_NOATIME

Michael Kerrisk

NOTES: kcmp() can be used to test if two FDs refer to the same OFD

Michael Kerrisk

F2FS support for O_TMPFILE was added in Linux 3.16

Michael Kerrisk

Clarify the rules about how the group ID of a new file is determined

prctl.2

Michael Kerrisk

Refer to proc(5) for effects of dumpability on ownership of /proc/PID/*

Michael Kerrisk

ERRORS: Add EACCES error for PR_SET_SECCOMP-SECCOMP_MODE_FILTER

Michael Kerrisk

Simplify list of cases where "dumpable" attribute is reset

Michael Kerrisk

Note user namespace requirements for PR_CAPBSET_DROP CAP_SETPCAP

readlink.2

Michael Kerrisk [Ursache Vladimir]

Make example program handle links that report a size of zero
Some "magic" symlinks created by the kernel (e.g., those under
/proc and /sys) report 'st_size' as zero. Modify the example
program to handle that possibility.

Michael Kerrisk

Emphasize that truncation of returned buffer generates no error

readv.2

Michael Kerrisk [Christoph Hellwig]

Clarify that RWF_DSYNC and RWF_SYNC apply only to data being written

Michael Kerrisk

Add preadv2() and pwritev2() to NAME line

reboot.2

Michael Kerrisk

Note user

namespace requirements around CAP_SYS_BOOT

rename.2

Michael Kerrisk [Tim Savannah]

Clarify that ERRORS may cause rename to fail (not to be nonatomic)

sched_setaffinity.2

Michael Kerrisk

Note user namespace requirements for CAP_SYS_NICE

seccomp.2

Michael Kerrisk

CAP_SYS_ADMIN is required only in caller's user namespace

select_tut.2

Peter Wu

Fix various issues in example program

seteuid.2

Michael Kerrisk

Note user namespace requirements for CAP_SETUID and CAP_SETGID

setgid.2

Michael Kerrisk

Note user namespace requirements for CAP_SETGID

setpgid.2

Michael Kerrisk

Add a reference to credentials(7)

setpgid.2

setsid.2

Michael Kerrisk

Relocate some text on sessions and sessions leaders

Some text that was in setpgid(2) is better placed in setsid(2).

setresuid.2

Michael Kerrisk

Note user namespace requirements for CAP_SETUID

setreuid.2

Michael Kerrisk

Note user namespace requirements for CAP_SETUID and CAP_SETGID

setsid.2

Michael Kerrisk

Refer to credentials(7) for details for details on controlling terminal

Refer to credentials(7) for details of how a session obtains
a controlling terminal.

set_thread_area.2

Michael Kerrisk

Add get_thread_area() to NAME

setuid.2

Michael Kerrisk

Note user namespace requirements for CAP_SETUID

sigprocmask.2

Keno Fischer

Expand/clarify libc/kernel sigset_t difference

stat.2

Michael Kerrisk [Ursache Vladimir, Mats Wichmann]

Improve discussion of 'st_size' for /proc and /sys files

Michael Kerrisk

_BSD_SOURCE and _SVID_SOURCE no longer expose nanosecond timestamps

umask.2

Michael Kerrisk

Provide a rationale for the existence of /proc/PID/status 'Umask' field

wait.2

Michael Kerrisk

Remove erroneous statement that waitpid() is implemented via wait4()

There is a fallback

to wait4(), but only if the kernel does
not provide a waitpid() system call.

bindresvport.3

rcmd.3

ip.7

Michael Kerrisk

Note user namespace requirements for CAP_NET_BIND_SERVICE

byteorder.3

Michael Kerrisk

SEE ALSO: add bswap(3)

dlopen.3

Michael Kerrisk

dlmopen() is still broken in glibc 2.24

endian.3

Michael Kerrisk

SEE ALSO: add bswap(3)

ffs.3

Michael Kerrisk [Stefan Tauner]

Correct feature test macro requirements

fmemopen.3

Michael Kerrisk [Rich Felker]

Remove bogus suggestion to use setbuffer()

getlogin.3

Michael Kerrisk

Update feature test macro requirements for cuserid()

getumask.3

Michael Kerrisk

Note that getumask() is still unavailable in glibc 2.24

Michael Kerrisk

Point to umask(2) for a thread-safe way to discover process's umask

mkstemp.3

Quentin Rameau

Fix _POSIX_C_SOURCE value for mkstemp()

The correct _POSIX_C_SOURCE

value has always been 200809L,

not 200112L.

pthread_join.3

Michael Kerrisk [Mats Wichmann]

Note that the caller might do clean up after joining with a thread

Michael Kerrisk []

Clarify use of 'retval' pointer

resolver.3

Ray Bellis

Correct arguments to `res_ninit(res_state statep)`

strverscmp.3

Michael Kerrisk

Add an example program

wcstombs.3

Michael Kerrisk [Igor Liferenko]

`wcstombs()` does not provide thread-safe interface to same functionality

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=741360>

core.5

Mike Frysinger [Michael Kerrisk]

Add more details for output paths and the crash handler

People sometimes assume that the crash handler runs in the same context as the crashing process. They would be incorrect :).

proc.5

Mike Frysinger

Clarify the root symlink and mount namespaces

If the target process is in a different

mount namespace, the root

symlink actually shows that view of the filesystem.

Michael Kerrisk [Mike Frysinger]

Expand discussion of `/proc/[pid]/root`

Add a shell example showing that `/proc/[pid]/root` is more than a symlink. Based on an example provided by Mike Frysinger in an earlier commit message.

Michael Kerrisk

Explain rules determining ownership of `/proc/PID/*` files

Describe the effect of the "dumpable" attribute on ownership of `/proc/PID` files.

Michael Kerrisk

Note effect of 'suid_dumpable' on ownership of `/proc/PID` files

Michael Kerrisk

Refer to `ptrace(2)` for info on effect of `suid_dumpable` on ptraceability

Michael Kerrisk

Add reference to `core(5)` in discussion of 'suid_dumpable'

Michael Kerrisk

Note that 'suid_dumpable' mode 1 is insecure

Michael Kerrisk

Document `/proc/meminfo` '+ShmemHugePages' and 'ShmemPmdMapped' fields

Michael Kerrisk

Document `/proc/PID/status` 'RssAnon', 'RssFile', and 'RssShmem' fields

Michael Kerrisk

Document `/proc/PID/status` 'HugetlbPages' field

Michael Kerrisk [Zefram]

Clarify that `/proc/PID/statm` 'shared' field counts `*resident*` pages

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=741360>

Michael Kerrisk

Add reference to `umask(2)` in discussion of `/proc/PID/status` 'Umask'

Michael Kerrisk

Clarify user namespace requirements for `/proc/sys/fs/protected_hardlinks`

Michael Kerrisk

Note changes to config option governing `/proc/[pid]/task/[tid]/children`

Michael Kerrisk

Clarify description of `/proc/PID/statm` 'lib' and 'dt' fields

These fields are always zero since Linux 2.6.

Namhyung Kim [Petr Cermak]

Add description of `CLEAR_REFS_MM_HIWATER_RSS`

Michael Kerrisk

Update example VM values in `/proc/PID/status`

capabilities.7

Michael Kerrisk

Add

note about `nosuid` to file capabilities section

Michael Kerrisk

SEE ALSO: add `proc(5)`

Michael Kerrisk

SEE ALSO: add `setsid(2)` and `setpgid(2)`

glob.7

Michael Kerrisk [Arnaud Gaillard]

Clarify that syntactically incorrect patterns are left unchanged

packet.7

Michael Kerrisk

Clarify user namespace requirements for `CAP_NET_RAW`

pipe.7

Michael Kerrisk [Patrick McLean]

Document `FIONREAD`

raw.7

Michael Kerrisk

Clarify user namespace requirements for `CAP_NET_RAW`

Also remove mention of `UID 0` as a method of creating

a raw socket. As far as I can tell from reading the

kernel source (net/ipv4/af_inet.c), this is not true.

socket.7

Michael Kerrisk

SIOCSPGRP: refer to fcntl(2) F_SETOWN for correct permission rules

The permission rules described for SIOCCPGRP are wrong. Rather than repeat the rules here, just refer the reader to fcntl(2), where

the rules are described for F_SETOWN.

unix.7

Michael Kerrisk [Laurent Georget, Ivan Kharpalev]

Remove mention of recvmsg() from discussion of EPIPE error

See https://bugzilla.kernel.org/show_bug.cgi?id=137351

ld.so.8

Michael Kerrisk

Expand description of LD_DEBUG

Provide a list of the categories, and note that multiple categories can be specified.

Michael Kerrisk

Add glibc version for LD_USE_LOAD_BIAS

Michael Kerrisk

Clarify text describing whether secure-mode programs preload libraries

Michael Kerrisk

Remove discussion of environment variables understood by libc5

libc5 disappeared long ago, so cease cluttering up this page with those ancient details. Thus, remove discussion of the following environment variables: LD_AOUT_LIBRARY_PATH, LD_AOUT_PRELOAD, LD_KEEPPDIR, LD_NOWARN, and LDD_ARGV0.

Michael Kerrisk

Remove text with ancient

libc4 and Linux libc details

Michael Kerrisk

Remove mention of "ELF only"

Drawing a distinction between ELF-only features versus a,out ceased to be relevant long ago, so cluttering the page with "ELF-only" serves no purpose.

==== Changes in man-pages-4.09 =====

Released: 2016-12-12, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

pkey_alloc.2

Dave Hansen [Michael Kerrisk]

New page documenting pkey_alloc(2) and pkey_free(2)

pthread_getattr_default_np.3

Michael Kerrisk

New page documenting pthread_getattr_default_np(3) and pthread_setattr_default_np(3)

strfromd.3

Wainer dos Santos Moschetta

New page documenting strfromd(3), strfromf(3), and strfroml(3)

The ISO/IEC TS 18661-1 specifies the strfrom() class of functions that convert a float-point value to string.

fuse.4

Keno Fischer [Michael Kerrisk]

New page describing /dev/fuse

This is my writeup of a basic description of /dev/fuse after playing with it for a few hours today. It is of course

woefully

incomplete, and since I neither have a use case nor am working on this code, I will not be in a position to expand it in the near future. However, I'm hoping this could still serve as a handy reference for others looking at this interface.

[mtk: Notwithstanding the incompleteness of this page, it's a good base for future extension.]

tmpfs.5

Michael Kerrisk

New page documenting the tmpfs filesystem

pkeys.7

Dave Hansen [Michael Kerrisk]

New page with overview of Memory Protection Keys

random.7

Michael Kerrisk [Theodore Ts'o, Nikos Mavrogiannopoulos, Laurent Georget]

New page providing an overview of interfaces for obtaining randomness

Contains material extracted from getrandom(2) and random(4),
as well as new material.

sock_diag.7

Pavel Emelyanov, Dmitry V. Levin

New page documenting NETLINK_SOCK_DIAG interface

close.2

getpriority.2

nice.2

timer_create.2

timerfd_create.2

random.4

elf.5

proc.5

sched.7

Various authors

These pages also saw substantial updates, as described under
"Changes to individual pages".

Newly documented interfaces in existing pages

mmap.2

Michael Kerrisk

Add (much) more detail on MAP_GROWSDOWN

mprotect.2

Dave Hansen

Document the new pkey_mprotect() system call

Eugene Syromyatnikov

Document PROT_SEM, PROT_SAO, PROT_GROWSUP, and PROT_GROWSDOWN

prctl.2

Eugene Syromyatnikov

Document PR_SET_FP_MODE and PR_GET_FP_MODE

perf_event_open.2

Vince Weaver

PERF_RECORD_SWITCH support

Linux 4.3 introduced two new record types for recording context

switches: PERF_RECORD_SWITCH and PERF_RECORD_SWITCH_CPU_WIDE.

Vince Weaver

Add PERF_SAMPLE_BRANCH_CALL branch sample type

Vince Weaver

PERF_SAMPLE_BRANCH_IND_JUMP branch_sample_type

Linux 4.2 added a new branch_sample_type: PERF_SAMPLE_BRANCH_IND_JUMP

Vince Weaver

Document PERF_RECORD_MISC_PROC_MAP_PARSE_TIMEOUT

Vince Weaver

Document sample_max_stack and /proc/sys/kernel/perf_event_max_stack

Linux 4.8 added a new sample_max_stack parameter, as well as /proc/sys/kernel/perf_event_max_stack which limits it and a new EOVERFLOW error return.

Dave Hansen

PERF_RECORD_LOST_SAMPLES record type

Linux 4.2 added a new record type: PERF_RECORD_LOST_SAMPLES

It is generated when hardware samples (currently only Intel PEBS) are lost.

ptrace.2

Michael Kerrisk

Document PTRACE_SECCOMP_GET_FILTER

Michael Kerrisk

Document PTRACE_GET_THREAD_AREA and PTRACE_SET_THREAD_AREA

namespaces.7

Michael Kerrisk [Eric W. Biederman]

Document the NS_GET_USERNS and NS_GET_PARENT ioctl() operations

sched.7

Michael Kerrisk [Mike Galbraith]

Document the autogroup feature

Includes documenting autogroup nice value

Michael Kerrisk

Autogrouping breaks traditional semantics of nice in many cases

When autogrouping is enabled (the default in many distros) there are many traditional use cases where the nice value ceases to have any effect.

Michael Kerrisk

Add a subsection on nice value and group scheduling

New and changed links

killpg.2

Michael Kerrisk

New link to relocated killpg(3) page

pkey_free.2

Michael Kerrisk

New link to new pkey_alloc(2) page

pkey_mprotect.2

Michael Kerrisk

New link to mprotect(2)

pthread_setattr_default_np.3

Michael Kerrisk

New link to new pthread_getattr_default_np.3

strfromf.3

Wainer dos Santos Moschetta

New link to strfromd(3)

strfroml.3

Wainer dos Santos Moschetta

New link to strfromd(3)

Global changes

Various

pages

Michael Kerrisk

Remove ancient libc4 and libc5 details

It's nearly 20 years now since Linux libc went away.

Remove some ancient details from the pages.

Various pages

Michael Kerrisk

Add cross references to new tmpfs(5) page

Various pages

Michael Kerrisk

Change section number from 2 to 3 in killpg() references

Changes to individual pages

accept.2

Michael Kerrisk

Remove editorializing comments about 'socklen_t'

Michael Kerrisk

Simplify the discussion of 'socklen_t'

We don't really need to list the old OSes in this discussion.

adjtimex.2

clock_getres.2

gettimeofday.2

Michael Kerrisk

SEE ALSO: add hwclock(8)

bind.2

connect.2

getpeername.2

getsockname.2

getsockopt.2

Michael Kerrisk

Replace discussion of 'socklen_t' with reference to accept(2)

The discussion of 'socklen_t' editorializes and is repeated

across several pages. Replace it with a reference to accept(2),
where some details about this type are provided.

chmod.2

Michael Kerrisk

SEE ALSO: add chmod(1)

chown.2

Michael Kerrisk

SEE ALSO: add chgrp(1) and chown(1)

chroot.2

Michael Kerrisk

SEE ALSO: add chroot(1)

clone.2

Michael Kerrisk

The CLONE_*_SETTID operations store TID before return to user space

CLONE_PARENT_SETTID and CLONE_CHILD_SETTID store the new

TID before clone() returns to user space

close.2

Michael Kerrisk [Daniel Wagner]

Rework and greatly extend discussion of error handling

Further clarify that an error return should be used only

for diagnostic or remedial purposes.

Michael Kerrisk

Other UNIX implementations also close the FD, even if reporting an error

Looking at some historical source code suggests

that the "close() always closes regardless of error

return"

behavior has a long history, predating even POSIX.1-1990.

Michael Kerrisk

Note that future POSIX plans to require that the FD is closed on error

See <http://austingroupbugs.net/view.php?id=529#c1200>.

Michael Kerrisk

Clarify the variation in EINTR behavior per POSIX and other systems

fallocate.2

Darrick J. Wong

Document behavior with shared blocks

Note that FALLOC_FL_UNSHARE may use CoW to unshare blocks to guarantee that a disk write won't fail with ENOSPC.

fanotify_mark.2

Heinrich Schuchardt

Mention FAN_Q_OVERFLOW

To receive overflow events it is necessary to set this bit in fanotify_mark().

fcntl.2

Michael Kerrisk

F_GETPIPE_SZ allocates next power-of-2 multiple of requested size

Add some detail about current implementation, since this helps the user understand the effect of the user pipe limits added in Linux

4.5 (described in pipe(7)).

Michael Kerrisk

Add EPERM that occurs for F_SETPIPE_SZ when user pipe limit is reached

fideduperange.2

Darrick J. Wong [Omar Sandoval]

Fix the discussion of maximum sizes

Fix the discussion of the limitations on the dest_count and src_length parameters to the fideduperange ioctl() to reflect what's actually in the kernel.

fsync.2

Michael Kerrisk

SEE ALSO: add fileno(3)

fileno(3) is useful if one is combining fflush(3)/fclose(3) and fsync(2).

Michael Kerrisk

SEE ALSO: add fflush(3)

getgroups.2

Andrew Clayton

FTM requirements fix for setgroups(2)

gethostname.2

Michael Kerrisk

SEE ALSO: add hostname(1)

get_mempolicy.2

Michael Kerrisk

Note that 'addr' must be NULL when 'flags' is 0

getpriority.2

Michael Kerrisk

Warn that autogrouping voids the effect of 'nice' in many cases

Refer the reader

to sched(7) for the details.

Michael Kerrisk

Expand discussion of getpriority() return value

Michael Kerrisk

The nice value supplied to setpriority() is clamped

Note that the nice value supplied to setpriority() is clamped to the permitted range.

Michael Kerrisk

Improve description of setpriority() return value

getpriority.2

sched.7

Michael Kerrisk

Move nice value details from getpriority(2) to sched(7)

Centralizing these details in sched(7) is more logical.

getrandom.2

random.4

Michael Kerrisk

Consolidate and improve discussion on usage of randomness

Currently, recommendations on how to consume randomness are spread across both getrandom(2) and random(4) and the general opinion seems to be that the text in getrandom(2) does a somewhat better job. Consolidate the discussion to a single page (getrandom(2)) and address some of the

concerns

expressed about the existing text in random(4).

[Some of this text ultimately made its way into the new random(7) page.]

getrandom.2

Michael Kerrisk

Remove material incorporated into random(7)

Michael Kerrisk

Note advantages of fact that getrandom() doesn't use file descriptors

Michael Kerrisk

Clarify that getrandom() is not "reading" from /dev/{random,urandom}

getrlimit.2

Michael Kerrisk

Refer to sched(7) in discussion of RLIMIT_RTPRIO and RLIMIT_RTTIME

Michael Kerrisk

Describe the range of the RLIMIT_NICE limit

Michael Kerrisk

Refer to sched(7) in the discussion of RLIMIT_NICE

Michael Kerrisk

SEE ALSO: add credentials(7)

ioctl_ficlone.2

ioctl_fideduperange.2

Darrick J. Wong

Clarify the behavior of the FIDEDUPERANGE ioctl

kill.2

Michael Kerrisk

SEE ALSO: add kill(1)

mbind.2

Michael Kerrisk [Christoph Lameter]

Memory policy is a per-thread attribute, not a per-process attribute

mbind.2

set_mempolicy.2

Piotr Kwapulinski [Christoph Lameter, Michael Kerrisk]

Add MPOL_LOCAL NUMA memory policy documentation

mount.2

Michael Kerrisk

SEE ALSO: add mountpoint(1)

mprotect.2

Michael Kerrisk

CONFORMING TO: note that pkey_mprotect() is Linux-specific

nice.2

Michael Kerrisk

Warn that autogrouping voids the effect of 'nice' in many cases

Michael Kerrisk

CONFORMING TO: Remove an ancient SVr4 detail on errno values

Michael Kerrisk

Rework discussion of nice() return value and standards conformance

Make the text a little clearer. In particular, clarify that the raw system call (still) returns 0 on success.

Michael Kerrisk

Clarify the range of the nice value, and note that it is clamped

Michael Kerrisk

Add mention of RLIMIT_NICE

Michael Kerrisk

Move discussion of handling the

-1 success return to RETURN VALUE

This detail was rather hidden in NOTES. Also, rework the text a little.

Michael Kerrisk

Clarify that nice() changes the nice value of the calling *thread*

Michael Kerrisk

Add "C library/kernel differences" subsection heading

Michael Kerrisk

Add reference to sched(7) for further details on the nice value

open.2

Michael Kerrisk

ubifs supports O_TMPFILE starting with Linux 4.9

Michael Kerrisk

Document ENOMEM that occurs when opening FIFO because of pipe hard limit

perf_event_open.2

Vince Weaver

Add cycles field in LBR records

Linux 4.3 added a cycles field to the PERF_SAMPLE_BRANCH_STACK last branch records.

Vince Weaver

Update time_shift sample code

Linux 4.3 improved the accuracy of the clock/ns conversion routines.

Michael Kerrisk

Clarify the use of signals for capturing overflow events

pipe.2

Michael Kerrisk

Add ENFILE error for user pipe hard limit reached

prctl.2

Eugene Syromyatnikov

Some additional details regarding the PR_GET_UNALIGNED operation

Eugene Syromyatnikov

Note the output buffer size for PR_GET_TID_ADDRESS operation on x32/n32

Michael Kerrisk

Remove numeric definitions of PR_FP_MODE_FR and PR_FP_MODE_FRE bits

ptrace.2

Keno Fischer

Document the behavior of PTRACE_SYSEMU stops

Keno Fischer

Expand documentation PTRACE_EVENT_SECCOMP traps

In Linux 4.8, the order of PTRACE_EVENT_SECCOMP and syscall-entry-stops was reversed. Document both behaviors and

their interaction with the various forms of restart.

quotactl.2

Eugene Syromyatnikov

Describe `Q_XQUOTASYNC`, which is present but no-op in recent kernels

reboot.2

Wang Long

Note errors for invalid commands inside a PID namespace

sched_setattr.2

Michael Kerrisk

Fix cross reference

for further info on the nice value

The information moved from `getpriority(2)` to `sched(7)`.

sched_setscheduler.2

Michael Kerrisk [Daniel Berrange]

Mention `SCHED_DEADLINE`

Give the reader a clue that there is another policy available that can't be set via `sched_setscheduler(2)`.

seccomp.2

Jann Horn

Document changed interaction with `ptrace`

Before kernel 4.8, the `seccomp` check will not be run again after the tracer is notified. Fixed in kernel 4.9.

Michael Kerrisk

NOTES: mention `ptrace(PTRACE_SECCOMP_GET_FILTER)` to dump `seccomp` filters

set_mempolicy.2

Michael Kerrisk

Reformat list of modes

setsid.2

Michael Kerrisk

Improve wording of text on calling `setsid()` after `fork()+_exit()`

Michael Kerrisk

SEE ALSO: add `sched(7)`

List `sched(7)`, because `setsid(2)` is part of the machinery of autogrouping.

sigaction.2

Dave Hansen

Further documentation of `SEGV_PKUERR`

signalfd.2

Michael Kerrisk

Document ssi_addr_lsb field of signalfd_siginfo

symlink.2

Michael Kerrisk

SEE ALSO: add namei(1)

sync_file_range.2

Michael Kerrisk

Fix description for ESPIPE error

A file descriptor can't refer to a symbolic link.

syscalls.2

Michael Kerrisk

Add pkey_alloc(), pkey_free(), and pkey_mprotect()

New system calls in Linux 4.9.

Michael Kerrisk

Add ppc_swapcontext(2)

timer_create.2

Michael Kerrisk

Document CLOCK_BOOTTIME

Michael Kerrisk

Document CLOCK_REALTIME_ALARM and CLOCK_BOOTTIME_ALARM

timerfd_create.2

Michael Kerrisk

Document CLOCK_BOOTTIME, CLOCK_REALTIME_ALARM, and CLOCK_BOOTTIME_ALARM

Michael Kerrisk

Document TFD_TIMER_CANCEL_ON_SET

Michael Kerrisk

Rework discussion on relative and absolute timers

unlink.2

Michael Kerrisk

SEE ALSO: add unlink(2)

utime.2

utimensat.2

Michael Kerrisk

SEE ALSO: add touch(1)

wait.2

Michael Kerrisk

On some architectures, waitpid() is a wrapper that calls wait4().

atof.3

Wainer dos Santos Moschetta

SEE ALSO: add strfromd(3)

ctime.3

Michael Kerrisk

Add ERRORS section

Michael Kerrisk

RETURN VALUE: describe return values more explicitly

errno.3

Michael Kerrisk [Igor Liferenko]

Add glibc error text for EILSEQ

fclose.3

fflush.3

Michael Kerrisk

SEE ALSO: add fileno(2)

getlogin.3

Michael Kerrisk

Remove deprecated `_REENTRANT` from FTM requirements for `getlogin_r()`

Michael Kerrisk

SEE ALSO: add `logname(1)`

isalpha.3

Michael Kerrisk

Note circumstances where 'c' must be cast to 'unsigned char'

killpg.3

Michael Kerrisk

Move `killpg.2` from section to section 3

mallopt.3

Michael Kerrisk [Siddhesh Poyarekar]

Document 0 as default value of `M_ARENA_MAX` and explain its meaning

Michael

Kerrisk

Improve description of `M_ARENA_TEST`

Michael Kerrisk

Document default value for `M_ARENA_TEST`

Michael Kerrisk

Note default value of `M_PERTURB`

mbsnrtowcs.3

Michael Kerrisk [Igor Liferenko]

Note behavior of `mbsnrtowcs()` for an incomplete character

Note the behavior of `mbsnrtowcs()` when an incomplete character is found at end of the input buffer.

mbstowcs.3

wcstombs.3

Michael Kerrisk [Igor Liferenko]

Improve language relating to "initial state"

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=839705>

mbstowcs.3

Michael Kerrisk [Igor Liferenko]

Add missing include to example program

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=845172>

mq_close.3

Michael Kerrisk

DESCRIPTION: add reference to mq_notify(3)

mq_open.3

Eugene Syromyatnikov

Clarification regarding usage of mq_flags attribute in mq_open()

mq_receive.3

mq_send.3

Eugene Syromyatnikov

Clarification regarding reasons behind EBADF

printf.3

Wainer dos Santos Moschetta

SEE ALSO: add strfromd(3)

pthread_attr_init.3

Michael Kerrisk

SEE ALSO: add pthread_setattr_default_np(3)

pthread_create.3

Michael Kerrisk

SEE ALSO: add pthread_setattr_default_np(3)

ptsname.3

Michael Kerrisk

Note that ptsname_r() is proposed for future inclusion in POSIX.1

Michael Kerrisk

CONFORMING TO:: clarify that only ptsname() is standardized (so far)

remainder.3

Michael Kerrisk

Note fix to remainder(nan(""), 0) handling

The bug https://www.sourceware.org/bugzilla/show_bug.cgi?id=6779

has been fixed in glibc 2.15.

Michael Kerrisk

Document fixes for EDOM handling for range errors

The bug http://sources.redhat.com/bugzilla/show_bug.cgi?id=6783

was fixed in glibc 2.15.

setjmp.3

Michael Kerrisk

_BSD_SOURCE must be **explicitly**

defined to get BSD setjmp() semantics

strtod.3

Wainer dos Santos Moschetta

SEE ALSO: add strfromd(3)

tgamma.3

Michael Kerrisk

Document fixes to give ERANGE for underflow range error

The bug https://www.sourceware.org/bugzilla/show_bug.cgi?id=6810

was fixed in glibc 2.19.

timegm.3

Michael Kerrisk

Add ERRORS section

Michael Kerrisk [Vincent Lefevre]

Add RETURN VALUE section

tmpnam.3

Michael Kerrisk

Properly document tmpnam_r(3)

toupper.3

Michael Kerrisk

Note circumstances where 'c' must be cast to 'unsigned char'

ttyname.3

Michael Kerrisk

SEE ALSO: add tty(1)

console_ioctl.4

Michael Kerrisk

Add brief descriptive text for KDGKBMODE modes

Miroslav Koskar

Add K_OFF keyboard mode

random.4

Michael Kerrisk

Add reference to new random(7) page

Michael Kerrisk

Rework formatting of /proc interfaces

Make the information
easier to parse by formatting the file
descriptions as hanging lists. No significant content changes.
Nikos Mavrogiannopoulos [Laurent Georget]

Provide a more accurate description of /dev/urandom

This documents the "property" of /dev/urandom of being able to
serve numbers prior to pool being initialized, and removes any
suggested usages of /dev/random which are disputable
(i.e., one-time pad). Document the fact /dev/random is only
suitable for applications which can afford indeterminate delays
since very few applications can do so. Smooth the alarming
language about a theoretical attack, and mention that its
security depends on the cryptographic primitives used by the
kernel, as well as the total entropy gathered.

Michael Kerrisk [Laurent Georget, Theodore Ts'o]

Improve discussion of /dev/urandom, blocking reads, and signals
The

text currently states that O_NONBLOCK has no effect for
/dev/urandom, which is true. It also says that reads from
/dev/urandom are nonblocking. This is at the least confusing.
If one attempts large reads (say 10MB) from /dev/urandom
there is an appreciable delay, and interruption by a signal
handler will result in a short read. Amend the text to
reflect this.

elf.5

Mike Frysinger

Add subsection headers at major points

The current pages dumps all the content into one big DESCRIPTION
with no real visual break up between logically independent
sections. Add some subsection headers to make it easier to
read and scan.

Mike Frysinger

Document notes

Document the Elf{32,64}_Nhdr structure, the sections/segments that
contain notes, and how to interpret them. I've been lazy and only
included the GNU extensions here,
especially as others are not
defined in the elf.h header file as shipped by glibc.

filesystems.5

Michael Kerrisk

SEE ALSO: add fuse(4)

proc.5

Dave Hansen

Describe new ProtectionKey 'smaps' field

Michael Kerrisk

Add example ProtectionKey output for 'smaps' file

Michael Kerrisk

Add pointers to sched(7) for autogroup files

sched(7) describes /proc/sys/kernel/sched_autogroup_enabled
and /proc/PID/autogroup.

Michael Kerrisk

Add /proc/sys/fs/pipe-user-pages-`{hard,soft}` entries

Michael Kerrisk

Improve description of the KernelPageSize and MMUPageSize 'smaps' fields

Michael Kerrisk

Rework 'smaps' ProtectionKey text and add some details

Michael Kerrisk

Mention lslocks(8) in discussion of /proc/locks

Michael Kerrisk

Describe Shmem field of /proc/meminfo

Michael Kerrisk

Rework 'smaps' VmFlags text, and add kernel version and example output

proc.5

pipe.7

Michael Kerrisk

Move /proc/sys/fs/pipe-max-size content from proc(5) to pipe(7)

resolv.conf.5

Carlos O'Donnell [Florian Weimer]

Timeout does not map to resolver API calls

utmp.5

Michael Kerrisk

SEE ALSO: add users(1)

capabilities.7

Michael Kerrisk

CAP_SYS_ADMIN governs ptrace(2) PTRACE_SECCOMP_GET_FILTER

Michael Kerrisk

CAP_SYS_ADMIN allows privileged ioctl() operations on /dev/random

cgroups.7

Michael Kerrisk

Add details on 'cpu' CFS bandwidth control

credentials.7

Michael Kerrisk

SEE ALSO: add setpriv(1)

Michael Kerrisk

SEE ALSO: add shadow(5)

feature_test_macros.7

Michael Kerrisk [Zack Weinberg]

Note that `_REENTRANT` and `_THREAD_SAFE` are now deprecated

Michael Kerrisk

Note that "cc -pthread" defines `_REENTRANT`

inotify.7

Michael Kerrisk

Note a subtlety of event generation when monitoring a directory

libc.7

Michael Kerrisk

Add a note on why glibc 2.x uses the soname `libc.so.6`

Michael Kerrisk

Add a few historical details on Linux `libc4` and `libc5`

Just for historical interest. Details taken from

<http://www.linux-m68k.org/faq/glibcinfo.html>.

mdoc.7

Michael Kerrisk

Add a cross-reference to `groff_mdoc(7)`

mount_namespaces.7

Michael Kerrisk

SEE ALSO: add `user_namespaces(7)`

mount_namespaces.7

user_namespaces.7

Michael Kerrisk

Migrate subsection on mount restrictions to `mount_namespaces(7)`

This section material in the `user_namespaces(7)` page was written before the creation of the `mount_namespaces(7)` manual page.

Nowadays, this material properly belongs in the newer page.

netlink.7

Dmitry V. Levin

Document `NETLINK_INET_DIAG` rename to `NETLINK_SOCKET_DIAG`

Dmitry V. Levin

Add references to `sock_diag(7)`

pid_namespaces.7

Michael Kerrisk

Refer to `namespaces(7)` for information about `NS_GET_PARENT`

pipe.7

Michael Kerrisk, Vegard Nossum [Vegard Nossum]

Document `/proc` files controlling memory usage by pipes

Document /proc/sys/fs/pipe-max-size and
/proc/sys/fs/pipe-user-pages-`{soft,hard}`.

Michael Kerrisk

Document pre-Linux 4.9 bugs in pipe limit checking

sched.7

Michael Kerrisk

Add a new introductory paragraph describing the nice value

Michael Kerrisk

Add more precise details on CFS's treatment of the nice value

Michael Kerrisk

Mention RLIMIT_NICE in the discussion of the nice value

Michael Kerrisk

NOTES: mention cgroups CPU controller

Michael Kerrisk

Add introductory sentence mentioning CFS scheduler

Michael Kerrisk

Add nice(2), getpriority(2), and setpriority(2) to API list

Michael Kerrisk

Make it clearer that SCHED_OTHER is always scheduled below real-time

Michael Kerrisk

Give the page a more generic NAME

The page isn't just about APIs.

standards.7

Michael Kerrisk

POSIX.1-2016 (POSIX.1-2008 TC2) has now been released

symlink.7

Michael Kerrisk

SEE ALSO: add namei(1)

uri.7

Jakub Wilk

Use "example.com" as example domain

user_namespaces.7

Michael Kerrisk

Add reference to namespaces(7) for NS_GET_USERNS operation

Michael Kerrisk

Add reference to namespaces(7) for NS_GET_PARENT operation

==== Changes in man-pages-4.10 =====

Released: 2017-03-13, Paris

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

add_key.2

Michael Kerrisk [Eugene Syromyatnikov, David Howells]

Major improvements and additions

The page has doubled in length.

ioctl_iflags.2

Michael Kerrisk

New page describing inode flags and ioctl() operations

ioctl_ns.2

Michael Kerrisk

New page created by splitting ioctl(2) operations out of namespaces(7)

keyctl.2

Michael Kerrisk, Eugene Syromyatnikov [David Howells, Mat Martineau]

A vast number of additions and improvements

The

page has gone from somewhat over 100 lines to well over

1000 lines and now more or less documents the complete interface
provided by this system call.

getentropy.3

Michael Kerrisk

New page documenting getentropy(3)

getentropy(3) is added to glibc in version 2.25.

keyrings.7

David Howells

New page (written by David Howells) adopted from keyutils

Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk [Eugene Syromyatnikov, David Howells]

Very many additions and improvements

Michael Kerrisk

Document /proc/keys

Michael Kerrisk

Document /proc/sys/kernel/keys/persistent_keyring_expiry

Michael Kerrisk

Document /proc/key-users

Michael Kerrisk

Document /proc/sys/kernel/keys/gc_delay

Michael Kerrisk

Document /proc files that define
key quotas

persistent-keyring.7

Michael Kerrisk

New page (written by David Howells) adopted from keyutils

Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk

Various clean-ups and additions

process-keyring.7

Michael Kerrisk

New page (written by David Howells) adopted from keyutils

Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk

Various additions and improvements

request_key.2

Michael Kerrisk, Eugene Syromyatnikov [David Howells]

Very many additions and improvements

The page is now three times its former length.

session-keyring.7

Michael Kerrisk

New page (written by David Howells) adopted from keyutils

Since

this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk

Various reworking and additions

signal-safety.7

Michael Kerrisk

New page created by migrating the signal-safety discussion from
signal(7). Along the way some more details got added.

Michael Kerrisk [KASAKI Motohiro]

Note async-signal-safety problems caused by pthread_atfork()

See https://bugzilla.kernel.org/show_bug.cgi?id=25292

Michael Kerrisk [KASAKI Motohiro]

Note glibc deviations from POSIX requirements

See https://bugzilla.kernel.org/show_bug.cgi?id=25292

thread-keyring.7

Michael Kerrisk

New page (written by David Howells) adopted from keyutils

Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk

Various rewordings and additions

user-keyring.7

Michael Kerrisk

New page (written by David Howells) adopted from keyutils

Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk

Various reworking and improvements

user-session-keyring.7

Michael Kerrisk

New page (written by David Howells) adopted from keyutils

Since this page documents kernel-user-space interfaces,
it makes sense to have it as part of man-pages, rather
than the keyutils package.

Michael Kerrisk

Various rewordings and additions

Newly documented interfaces in existing pages

bzero.3

Michael Kerrisk

Document explicit_bzero() (new in glibc 2.25)

Also, reword the description of bzero somewhat.

proc.5

Michael

Kerrisk

Document /proc/sys/vm/user_reserve_kbytes

Michael Kerrisk

Document /proc/sys/vm/admin_reserve_kbytes

Michael Kerrisk

Document /proc/sys/fs/mount-max

Michael Kerrisk

Document /proc/PID/status 'NoNewPrivs' field

New and changed links

explicit_bzero.3

Michael Kerrisk

New link to bzero.3

Changes to individual pages

chmod.2

Michael Kerrisk

ERRORS: add EPERM error for immutable/append-only file

chown.2

Michael Kerrisk

ERRORS: add EPERM error for immutable/append-only file

chroot.2

Michael Kerrisk

SEE ALSO: add switch_root(8)

clock_getres.2

Michael Kerrisk

Note POSIX.1 requirements re relative time services and CLOCK_REALTIME

clone.2

Michael Kerrisk

clone() does not execute fork handlers

execve.2

Michael Kerrisk

Rework text describing when effective IDs aren't transformed by execve()

Michael

Kerrisk

File capabilities can be ignored for the same reasons as set-UID/set-GID

Michael Kerrisk

The 'no_new_privs' bit inhibits transformations of the effective IDs

fork.2

Michael Kerrisk

cgroup PIDs controller may also be trigger for EAGAIN error

fsync.2

Michael Kerrisk

SEE ALSO: add posix_fadvise(2)

getrandom.2

Michael Kerrisk

Remove getentropy(3) details and defer to new getentropy(3) page

Michael Kerrisk

Starting with glibc 2.25, getrandom() is now declared in <sys/random.h>

Michael Kerrisk

glibc support was added in version 2.25

getrlimit.2

Michael Kerrisk

Document role of RLIMIT_NOFILE for FD passing over UNIX sockets

getxattr.2

listxattr.2

Andreas Gruenbacher

Document E2BIG errors

inotify_add_watch.2

Michael Kerrisk

Note "inode" as a synonym for "filesystem object"

Consistent with clarifications just made in inotify(7).

ioctl.2

Michael Kerrisk

SEE ALSO: add ioctl_ns(2), ioctl_iflags(2)

ioctl_fat.2

Brian Masney

Correctly reference volume ID instead of volume label

kcmp.2

Michael Kerrisk

Mention the clone(2) flags relating to various kcmp() 'type' values

Michael Kerrisk

KCMP_FILE: note reasons why FDs may refer to same open file description

link.2

Michael Kerrisk

When using linkat() AT_EMPTY_PATH, 'olddirfd' must not be a directory

Michael Kerrisk

ERRORS: add EPERM for immutable/append-only files

Michael Kerrisk

Note limits where EMLINK is encountered on ext4 and Btrfs

listxattr.2

Michael Kerrisk

Eliminate extra E2BIG error text

Andreas' patch added a second description of E2BIG that was (mostly) more detailed than the existing text. Combine the two texts.

lseek.2

Michael Kerrisk

O_APPEND overrides the effect of lseek() when doing file writes

Michael Kerrisk

Remove ancient

info about whence values and return values on old systems

Michael Kerrisk

Remove slightly bogus advice about race conditions

The page already (by now) contains a reference to open(2) for a discussion of open file descriptions. Leave it at that, since the reader can then deduce how things work.

madvise.2

Michael Kerrisk

Note that madvise() is generally about improving performance

mbind.2

Krzysztof Kulakowski [Michael Kerrisk]

Update MPOL_BIND description

The behavior of MPOL_BIND changed in Linux 2.6.26.

mincore.2

Michael Kerrisk

SEE ALSO: add madvise(2), posix_fadvise(2), posix_madvise(3)

mlock.2

Michael Kerrisk

Note pre-4.9 bug in RLIMIT_MEMLOCK accounting for overlapping locks

Michael Kerrisk

SEE ALSO: add mincore(2)

mmap.2

Michael Kerrisk

mincore(2) can be used to discover which pages of a mapping are resident

mount.2

Michael Kerrisk [Rob

Landley]

Refer to mount_namespaces(7) for details of default propagation type

nanosleep.2

Michael Kerrisk

Describe "creeping sleep" problem

nanosleep() has a problem if used in a program that catches signals and those signals are delivered at a very high rate.

Describe the problem, and note that clock_nanosleep(2) provides a solution.

Michael Kerrisk

BUGS: explicitly note that the Linux 2.4 bug was fixed in Linux 2.6

open.2

Michael Kerrisk

Make it clear that O_APPEND implies atomicity

Michael Kerrisk

Clarify distinction between file creation flags and file status flags

Michael Kerrisk

Note ambiguity of ELOOP error when using O_NOFOLLOW

Michael Kerrisk

Restructure O_NOFOLLOW text for easier parsing

Michael Kerrisk

Clarify that O_NOFOLLOW is now in POSIX

poll.2

select.2

Nicolas Biscos

Add a reference to the sigset discussion in sigprocmask(2)

A little while back, I added a note to sigprocmask.2 that discussed the difference between the libc's and the kernel's sigset_t structures. I added that note, because I saw this being done wrong in a tool tracing system calls (causing subtle bugs). As it turns out, the same bugs existed for ppoll and pselect, for the same reason. I'm hoping by adding the reference here, future writers of similar tools will find that discussion and not make the same mistake.

posix_fadvise.2

Michael Kerrisk

Mention /proc/sys/vm/drop_caches

It may be helpful for the reader of this page to know about /proc/sys/vm/drop_caches.

Michael Kerrisk

Reorganize some text

Details for various flags were hidden under NOTES.

Move them to DESCRIPTION, to make the details more obvious.

Michael Kerrisk

One can use open(2)

+ mmap(2) + mincore(2) as a 'fincore'

Note that open(2) + mmap(2) + mincore(2) can be used to get a view of which pages of a file are currently cached.

Michael Kerrisk [Maik Zumstrull]

Note that POSIX_FADV_DONTNEED *may* try to write back dirty pages

Michael Kerrisk

SEE ALSO: mincore(2)

prctl.2

Michael Kerrisk

Clarify that the ambient capability set is per-thread

Keno Fischer

Be more precise in what causes dumpable to reset

Michael Kerrisk

The no_new_privs setting is per-thread (not per-process)

Michael Kerrisk

Mention /proc/PID/status 'NoNewPrivs' field

Michael Kerrisk

Add reference to seccomp(2) in discussion of PR_SET_NO_NEW_PRIVS

ptrace.2

Omar Sandoval

Clarify description of PTRACE_O_EXITKILL

read.2

Michael Kerrisk [Kai NODA]

Rework text in DESCRIPTION that talks about limits for 'count'

See https://bugzilla.kernel.org/show_bug.cgi?id=86061

Michael Kerrisk [Steven Luo]

Remove crufty text about EINTR and partial read

Remove bogus text saying that POSIX permits partial read to return -1/EINTR on interrupt by a signal handler.

That statement already ceased to be true in SUSv1 (1995)!

See https://bugzilla.kernel.org/show_bug.cgi?id=193111

readv.2

Michael Kerrisk

Remove generic advice about mixing stdio and syscalls on same file

There is nothing specific to readv()/writev() about this advice.

recv.2

Michael Kerrisk [Vincent Bernat]

Remove duplicate paragraph

man-pages-1.34 included changes that duplicated an existing paragraph. Remove that duplicate.

Michael Kerrisk

SEE ALSO: add ip(7), ipv6(7), tcp(7), udp(7), unix(7)

remap_file_pages.2

Michael Kerrisk

remap_file_pages() has been replaced by a slower in-kernel emulation

send.2

Michael Kerrisk

SEE ALSO: add ipv6(7),
socket(7), unix(7)

setxattr.2

Michael Kerrisk

ERRORS: add EPERM for immutable/append-only files

signalfd.2

Michael Kerrisk

signalfd() doesn't play well with helper programs spawned by libraries
See <https://lwn.net/Articles/415684/>.

Michael Kerrisk

signalfd can't be used to receive synchronously generated signals
Signals such as the SIGSEGV that results from an invalid
memory access can be caught only with a handler.

stat.2

Michael Kerrisk

EXAMPLE: extend program to also show ID of the containing device

Michael Kerrisk

NOTES: mention fstatat() AT_NO_AUTOMOUNT in discussion of automounting

statfs.2

Namhyung Kim

Add more filesystem types
Add missing magic numbers from /usr/include/linux/magic.h

syscall.2

Mike Frysinger

Add endian details with 64-bit splitting
Architectures that split 64-bit values across register pairs
usually

do so according to their C ABI calling convention (which
means endianness). Add some notes to that effect, and change the
readahead example to show a little endian example (since that is
way more common than big endian).

Also start a new list of syscalls that this issue does not apply
to.

Mike Frysinger

Note parisc handling of aligned register pairs

While parisc would normally have the same behavior as ARM/PowerPC, they decide to write shim syscall stubs to unpack/realign rather than expose the padding to userspace.

tkill.2

Jann Horn

Document EAGAIN error for real-time signals

truncate.2

Michael Kerrisk

Note use of ftruncate() for POSIX shared memory objects

unlink.2

Michael Kerrisk

ERRORS: add EPERM error for immutable/read-only files

vfork.2

Michael Kerrisk

Explain why the child should not call exit(3)

Michael Kerrisk

Another reason to use vfork() is to avoid overcommitting memory

Michael Kerrisk

Note some caveats re the use of vfork()

Inspired by Rich Felker's post at <http://ewontfix.com/7/>.

See also https://sourceware.org/bugzilla/show_bug.cgi?id=14749 and

See also https://sourceware.org/bugzilla/show_bug.cgi?id=14750.

Michael Kerrisk

SEE ALSO: add _exit(2)

write.2

Michael Kerrisk [Kai NODA]

Alert the reader that there is a limit on 'count'

See https://bugzilla.kernel.org/show_bug.cgi?id=86061

aio_suspend.3

Michael Kerrisk

Note that the glibc implementation is not async-signal-safe

See https://sourceware.org/bugzilla/show_bug.cgi?id=13172

backtrace.3

Michael Kerrisk

SEE ALSO: add addr2line(1) and gdb(1)

bcmp.3

bcopy.3

bzero.3

memccpy.3

memchr.3

memcmp.3

memcpy.3

memfrob.3

memmem.3

memmove.3

memset.3

Michael Kerrisk

SEE ALSO: add bstring(3)

exec.3

Michael

Kerrisk

execl() and execl_e() were not async-signal-safe before glibc 2.24

fopen.3

Michael Kerrisk [Helmut Eller]

Describe freopen() behavior for NULL pathname argument

See https://bugzilla.kernel.org/show_bug.cgi?id=191261

Michael Kerrisk

Note the open(2) flags that correspond to the 'mode' argument

Michael Kerrisk

Change argument name: 'path' to 'pathname'

For consistency with open(2).

Michael Kerrisk

Add subsection headings for each function

fts.3

Michael Kerrisk

Use better argument name for fts_children() and fts_set()

Michael Kerrisk

Fix minor error in FTSENT structure definition

Michael Kerrisk

Improve explanation of 'fts_errno'

Michael Kerrisk

Give a hint that there are further fields in the FTSENT structure

Michael Kerrisk

Clarify meaning of zero as 'instr' value for fts_set()

ftw.3

Michael Kerrisk

Correctly handle use

of stat info for FTW_NS in example program

Michael Kerrisk

Clarify that stat buffer is undefined for FTW_NS

getline.3

Michael Kerrisk

EXAMPLE: better error handling

Michael Kerrisk [Kent Fredic]

EXAMPLE: handle null bytes in input

Jann Horn

Document ENOMEM error case

see the error handling in libio/iogetdelim.c

Michael Kerrisk

EXAMPLE: specify file to be opened as command-line argument

Michael Kerrisk

Use better variable name in example program

getmntent.3

Michael Kerrisk [Anders Thulin]

Prefer '\\\\' as the escape to get a backslash

See https://bugzilla.kernel.org/show_bug.cgi?id=191611

getopt.3

Michael Kerrisk

Reword discussion of error handling and reporting

The existing description was hard to understand. Break it into a bullet list that separates out the details in a manner that is easier to parse.

Michael Kerrisk

Correct details of use of <stdio.h> to get getopt() declaration

Michael Kerrisk [John Wiersba]

Remove some redundant text

mq_open.3

Michael Kerrisk [Adam Martindale]

Include definition of the 'mq_attr' structure in this man page

Make the reader's life a little easier by saving them from having to refer to mq_getattr(3).

mq_send.3

Michael Kerrisk [Adam Martindale]

Refer to mq_overview(7) for details on range of message priority

__ppc_set_ppr_med.3

Wainer dos Santos Moschetta

Note need for _ARCH_PWR8 macro

The _ARCH_PWR8 macro must be defined to get the __ppc_set_ppr_very_low() and __ppc_set_ppr_med_high() definitions.

printf.3

Michael Kerrisk

Document nonstandard 'Z' modifier

Michael Kerrisk

Document 'q' length modifier

Michael Kerrisk [Erik Roland van der Meer]

Fix a small bug in example code

Move the second call to `va_end(ap)`

to above the if-block that

precedes it, so that the `va_list 'ap'` will be cleaned up in all cases.

Michael Kerrisk [Nadav Har'El]

As a nonstandard extension, GNU treats 'l' and 'L' as synonyms

See https://bugzilla.kernel.org/show_bug.cgi?id=190341.

Michael Kerrisk

Add references to `setlocale(3)` in discussions of locales

Michael Kerrisk

SEE ALSO: remove bogus self reference (`dprintf(3)`)

random.3

Michael Kerrisk

Relocate information of "optimal" value of `initstate()` 'n' argument

The information was a bit hidden in NOTES.

random_r.3

Michael Kerrisk [Jan Ziak]

'buf.state' must be initialized to NULL before calling `initstate_r()`

See https://bugzilla.kernel.org/show_bug.cgi?id=192801.

Michael Kerrisk

Add some usage notes for `setstate_r()`

Michael Kerrisk

Note that 'buf' records a pointer to 'statebuf'

See https://sourceware.org/bugzilla/show_bug.cgi?id=3662.

Michael Kerrisk

Add BUGS section pointing out the weirdness of the `initstate_r()` API

resolver.3

Michael Kerrisk

`RES_AAONLY`, `RES_PRIMARY`, `RES_NOCHECKNAME`, `RES_KEEPTSIG` are deprecated

These options were never implemented; since glibc 2.25, they are deprecated.

Michael Kerrisk

The `RES_NOIP6DOTINT` is removed in glibc 2.25

Michael Kerrisk

Note that `RES_BLAST` was unimplemented and is now deprecated

Michael Kerrisk

`RES_USE_INET6` is deprecated since glibc 2.25

Michael Kerrisk

`RES_USEBSTRING` was removed in glibc 2.25

resolver.3

resolv.conf.5

Michael Kerrisk

Note that RES_USEBSTRING defaults to off

scandir.3

Michael Kerrisk [Ian Jackson]

Fix errors in example program

See <http://bugs.debian.org/848231>.

Michael Kerrisk

Improve logic of the example program

scanf.3

Michael Kerrisk

Document the quote (') modifier

for decimal conversions

sem_post.3

setjmp.3

Michael Kerrisk

SEE ALSO: add signal-safety(7)

sem_wait.3

Michael Kerrisk [Fabjan Sukalia]

Remove statement that SA_RESTART does not cause restarting

This has not been true since Linux 2.6.22. The description of EINTR maintains a reference to signal(7), which explains the historical details.

See https://bugzilla.kernel.org/show_bug.cgi?id=192071

sleep.3

Michael Kerrisk [Mike Frysiner]

Note that sleep() is implemented via nanosleep(2)

See https://bugzilla.kernel.org/show_bug.cgi?id=73371.

Michael Kerrisk [Mike Frysinger]

Note that sleep() sleeps for a real-time number of seconds

See https://bugzilla.kernel.org/show_bug.cgi?id=73371.

Michael Kerrisk

Convert BUGS text to "Portability notes" subsection

The existing text is not a bug, as such.

Michael Kerrisk

DESCRIPTION: minor reworking

strerror.3

Heinrich Schuchardt

Indicate reasonable buffer size for strerror_r() and strerror_l()

Add a hint which buffer size is needed for strerror_r() and strerror_l().

strverscmp.3

Michael Kerrisk [Vivenzio Pagliari]

Fix comparison error in example program

system.3

Michael Kerrisk

In the glibc implementation, fork handlers are not executed by system()

random.4

Michael Kerrisk [Jon Jensen]

Note that entropy_avail will be a number in the range 0..4096

core.5

Michael Kerrisk

Clarify that dumping program's initial CWD is root directory

Michael Kerrisk

The target of core dump piping can also be a script

filesystems.5

Michael Kerrisk

SEE ALSO: add btrfs(5), nfs(5), tmpfs(5)

intro.5

Michael Kerrisk

Document the reality that by now Section 5 also covers filesystems

There are by now, from various filesystem projects, various pages in Section

5 that document different filesystems.

Change intro(5) to reflect that.

Documented after following: <http://bugs.debian.org/847998>

proc.5

Mike Frysinger [Michael Kerrisk]

Clarify /proc/pid/environ behavior

/proc/pid/environ reflects process environment at

start of program execution; it is set at time of execve(2)

Michael Kerrisk

Add reference to slabinfo(5) in discussion of /proc/meminfo 'Slab' field

Michael Kerrisk

Add entries for "keys" files that refer reader to keyrings(7)

Michael Kerrisk

Remove duplicate /proc/[pid]/seccomp entry

Michael Kerrisk

Mention other system calls that create 'anon_inode' file descriptors

Mention a few other system calls that create file descriptors

that display an 'anon_inode' symlink in /proc/PID/fd

Michael Kerrisk

Add some detail on overcommit_memory value 1

Michael Kerrisk

Add reference to vdso(7)
in discussion of /proc/PID/maps

resolv.conf.5

Michael Kerrisk

ip6-bytestring was removed in glibc 2.25

Michael Kerrisk

The ipc-dotint and no-ip6-dotint options were removed in glibc 2.25

Michael Kerrisk

The 'inet6' option is deprecated since glibc 2.25

slabinfo.5

Michael Kerrisk

SEE ALSO: add slabtop(1)

capabilities.7

Michael Kerrisk [Casey Schaufler]

Add subsection with notes to kernel developers

Provide some notes to kernel developers considering how to choose
which capability should govern a new kernel feature.

Michael Kerrisk

Further enhance the recommendation against new uses of CAP_SYS_ADMIN

Michael Kerrisk

Explicitly point from CAP_SYS_ADMIN to "Notes for kernel developers"

Michael Kerrisk

Add another case for CAP_DAC_READ_SEARCH

Michael Kerrisk

Refer to execve(2) for the reasons that file capabilities may be ignored

Michael Kerrisk

Document a new use of CAP_SYS_RESOURCE

Michael Kerrisk

Add some more operations governed by CAP_SYS_ADMIN

Michael Kerrisk

Adjust references to chattr(1) to point to ioctl_iflags(2)

environ.7

Michael Kerrisk

Mention prctl(2) PR_SET_MM_ENV_START and PR_SET_MM_ENV_END operations

inotify.7

Michael Kerrisk

Point out that inotify monitoring is inode based

ip.7

Michael Kerrisk

SEE ALSO: add ip(8)

man.7

uri.7

Jakub Wilk

Use "www.kernel.org" in example URLs

Apparently www.kernelnotes.org is now a spam site.

mount_namespaces.7

Michael Kerrisk [Rob Landley]

Rework the discussion of defaults for mount propagation types

Add rather more detail. In particular, note the cases where the

default propagation type is MS_PRIVATE vs MS_SHARED.

namespaces.7

Michael Kerrisk

EXAMPLE: fix an error in shell session

Michael Kerrisk

EXAMPLE: rename the example

program

Use a more generic name, since this program may be expanded
in various ways in the future.

Michael Kerrisk

SEE ALSO: add ip-netns(8)

Michael Kerrisk

Remove content split out into ioctl_ns(2)

netlink.7

Michael Kerrisk

NETLINK_IP6_FW went away in Linux 3.5

Michael Kerrisk

NETLINK_W1 went away in Linux 2.6.18

Michael Kerrisk

Add NETLINK_SCSITRANSPORT to list

Michael Kerrisk

Add NETLINK_RDMA to list

Michael Kerrisk

NETLINK_FIREWALL was removed in Linux 3.5

Michael Kerrisk

NETLINK_NFLOG was removed in Linux 3.17

Jakub Wilk

Update libnl homepage URL

The original URL is 404.

pid_namespaces.7

user_namespaces.7

Michael Kerrisk

Adjust references to namespaces(7) to ioctl_ns(2)

pid_namespaces.7

Keno Fischer

CLONE_SIGHAND|CLONE_VM|CLONE_NEWPID is no longer disallowed

pipe.7

Michael Kerrisk

Since Linux 4.9,

pipe-max-size is ceiling for the default pipe capacity

Michael Kerrisk

Clarify that default pipe capacity is 16 pages

The statement that the default pipe capacity is 65536 bytes is accurate only on systems where the page size is 4096B.

See the use of PIPE_DEF_BUFFERS in the kernel source.

random.7

Michael Kerrisk

Mention getentropy(3)

Michael Kerrisk

SEE ALSO: add getentropy(3)

Michael Kerrisk

SEE ALSO: add getauxval(3)

A small hint to the reader that some random bytes arrive in the auxiliary vector.

signal.7

Michael Kerrisk

SIGSYS: add reference to seccomp(2)

Michael Kerrisk

Change description of SIGSYS to "Bad system call"

This is the more typical definition.

Michael Kerrisk

SIGPIPE: add reference to pipe(7)

Michael Kerrisk

SIGXFSZ: add reference to setrlimit(2)

Michael Kerrisk

Add a name for SIGEMT

Michael

Kerrisk

SIGXCPU: add reference to setrlimit(2)

Michael Kerrisk

Migrated signal-safety discussion to new signal-safety(7) page

unix.7

Michael Kerrisk [Sergey Polovko]

Since Linux 3.4, UNIX domain sockets support MSG_TRUNC

This was correctly noted in recv(2), but the unix(7) page

was not correspondingly updated for the Linux 3.4 change.

Michael Kerrisk [Willy Tarreau]

Document ETOOMANYREFS for SCM_RIGHTS send exceeding RLIMIT_NOFILE limit

user_namespaces.7

Michael Kerrisk

Change page cross reference: keyctl(2) ==> keyrings(7)

ld.so.8

Michael Kerrisk

LD_BIND_NOT has effect only for function symbols

Michael Kerrisk

Describe use of LD_DEBUG with LD_BIND_NOT

Michael Kerrisk

In secure mode, LD_AUDIT restricts the libraries that it will load

Michael Kerrisk

LD_AUDIT understands \$ORIGIN, \$LIB, and \$PLATFORM

==== Changes in man-pages-4.11

====

Released: 2017-05-03, Baden, Switzerland

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

ioctl_userfaultfd.2

Michael Kerrisk, Mike Rapoport

New page describing ioctl(2) operations for userfaultfd

statx.2

David Howells, Michael Kerrisk [Andreas Dilger]

New page describing statx(2) system call added in Linux 4.11

userfaultfd.2

Mike Rapoport, Michael Kerrisk [Andrea Arcangeli]

New page describing userfaultfd(2) system call.

pthread_atfork.3

Michael Kerrisk

New page describing pthread_atfork(3)

slabinfo.5

Michael Kerrisk

Rewrite to try to bring the content close to current reality

There's still gaps to fill in, but the existing page
was in any case hugely out of date.

inode.7

Michael Kerrisk

New page with information about inodes

David Howells provided a statx(2) page that duplicated much of the information from stat(2). Avoid such duplication by moving the common information in stat(2) and statx(2) to a new page.

Renamed pages

ioctl_console.2

Michael Kerrisk

Renamed from console_ioctl.4

Most ioctl() man pages are in section 2, so move this one there for consistency.

Michael Kerrisk

Note type of 'argp' for a various operations

For some commands, there was no clear statement about the type of the 'argp' argument.

ioctl_tty.2

Michael Kerrisk

Renamed from tty_ioctl(4)

All other ioctl(2) pages are in section 2. Make this page consistent.

Michael Kerrisk

Packet mode state change events give POLLPRI events for poll(2)

Newly documented interfaces in existing pages

ioctl_ns.2

Michael Kerrisk

Document the NS_GET_NSTYPE operation added in Linux 4.11

Michael Kerrisk

Document the NS_GET_OWNER_UID operation added in Linux 4.11

proc.5

Michael Kerrisk

Document /proc/sys/kernel/sched_child_runs_first

namespaces.7

Michael Kerrisk

Document the /proc/sys/user/* files added in Linux 4.9

socket.7

Francois Saint-Jacques, Michael Kerrisk

Document SO_INCOMING_CPU

New and changed links

console_ioctl.4

Michael Kerrisk

Link for old name of ioctl_console(2) page

tty_ioctl.4

Michael Kerrisk

Link for old name of ioctl_tty(2)

page

Global changes

Various pages

Michael Kerrisk

Change page cross-references from tty_ioctl(4) to ioctl_tty(2)

Michael Kerrisk

Change page cross-references for console_ioctl(4) to ioctl_console(2)

Changes to individual pages

alarm.2

Michael Kerrisk

SEE ALSO: add timer_create(2) and timerfd_create(2)

chmod.2

fsync.2

mkdir.2

mknod.2

open.2

truncate.2

umask.2

utime.2

utimensat.2

Michael Kerrisk

Add/replace references to inode(7)

clone.2

Michael Kerrisk

CLONE_NEWCGROUP by an unprivileged process also causes an EPERM error

clone.2

unshare.2

Michael Kerrisk

Exceeding one of the limits in /proc/sys/user/* can cause ENOSPC

Michael Kerrisk

CLONE_NEWPID yields ENOSPC if nesting limit of PID namespaces is reached

Michael Kerrisk

Exceeding the maximum nested user namespace limit now gives ENOSPC

Formerly, if the limit of 32 nested

user namespaces was exceeded,

the error EUSERS resulted. Starting with Linux 4.9, the error

is ENOSPC.

epoll_ctl.2

Michael Kerrisk

Defer to poll(2) for an explanation of EPOLLIN

Michael Kerrisk [Nicolas Biscos]

EPOLLERR is also set on write end of a pipe when the read end is closed

Michael Kerrisk [Nicolas Biscos]

Give the reader a clue that the 'events' field can be zero

'events' specified as zero still allows EPOLLHUP and

EPOLLERR to be reported.

_exit.2

Michael Kerrisk

On exit, child processes may be inherited by a "subreaper"

It is no longer necessarily true that orphaned processes

are inherited by PID 1.

Michael Kerrisk

Only the least significant byte of exit status is passed to the parent

fcntl.2

Michael Kerrisk

Mention memfd_create() in the discussion of file seals

Give the reader a clue about what kinds of objects can

be employed with file seals.

Michael Kerrisk

File seals are not generally applicable to tmpfs(5) files

As far as I can see, file seals can be applied only to

memfd_create(2) file descriptors. This was checked by experiment

and by reading mm/shmem.c::shmem_get_inode(), where one finds

the following line that applies to all new shmem files:

```
info->seals = F_SEAL_SEAL;
```

Only in the code of the memfd_create() system call is this setting reversed (in mm/shmem.c::memfd_create):

```
if (flags & MFD_ALLOW_SEALING)
    info->seals &= ~F_SEAL_SEAL;
```

fork.2

Michael Kerrisk

SEE ALSO: add pthread_atfork(3)

getdents.2

open.2

stat.2

statx.2

Michael Kerrisk

SEE ALSO: add inode(7)

getdtablesize.2

attr.5

Alexander Miller

Move .so directive to first line

Improves compatibility with the man
and other dumb tools
that process man page files.

getpid.2

Michael Kerrisk

Mention init(1) and "subreapers" in discussion of parent PID

ioctl_list.2

Cyril Hrubis [Arnd Bergmann]

BLKRASET/BLKRASET take unsigned long

ioctl_ns.2

Michael Kerrisk

ERRORS: document ENOTTY

kexec_load.2

sched_setaffinity.2

bootparam.7

Michael Kerrisk

Documentation/kernel-parameters.txt is now in Documentation/admin-guide/

lseek.2

Michael Kerrisk

SEE ALSO: add fallocation(2)

Both of these pages discuss file holes.

mincore.2

Michael Kerrisk

SEE ALSO: add fincore(1)

mmap.2

Michael Kerrisk

Remove ancient reference to flags that appear on some other systems

MAP_AUTOGROW, MAP_AUTORESrv, MAP_COPY, and MAP_LOCAL may have appeared on some systems many years ago, but the discussion here mentions no details and the systems and flags probably ceased to be relevant

long ago. So, remove this text.

Michael Kerrisk

SEE ALSO: add userfaultfd(2)

open.2

Michael Kerrisk

Add statx() to list of "at" calls in rationale discussion

poll.2

Michael Kerrisk

Expand discussion of POLLPRI

Michael Kerrisk [Nicolas Biscos]

POLLERR is also set on write end of a pipe when the read end is closed

posix_fadvise.2

Michael Kerrisk

SEE ALSO: add fincore(1)

prctl.2

Mike Frysinger

PR_SET_MM: Refine CONFIG_CHECKPOINT_RESTORE requirement

The Linux 3.10 release dropped the c/r requirement and opened it up to all users.

Mike Frysinger

PR_SET_MM: Document new PR_SET_MM_MAP{,_SIZE} helpers

Mike Frysinger

PR_SET_MM: Document arg4/arg5 zero behavior

The kernel will immediately reject calls where arg4/arg5 are not zero. See kernel/sys.c:prctl_set_mm().

Michael Kerrisk

Explain rationale for use of subreaper processes

Michael

Kerrisk

Note semantics of child_subreaper setting on fork() and exec()

Michael Kerrisk

Improve description of PR_SET_CHILD_SUBREAPER

rename.2

Michael Kerrisk [Georg Sauthoff]

Note that there is no glibc wrapper for renameat2()

sched_setaffinity.2

Michael Kerrisk

SEE ALSO: add get_nprocs(3)

select.2

Michael Kerrisk [Matthew Wilcox, Carlos O'Donnell]

Linux select() is buggy wrt POSIX in its check for EBADF errors

Michael Kerrisk

Show correspondence between select() and poll() readiness notifications

Michael Kerrisk

Give a hint that sets must be reinitialized if using select() in a loop

Michael Kerrisk

Refer to POLLPRI in poll(2) for info on exceptional conditions

Michael Kerrisk

Move mislocated text describing the self-pipe text from BUGS to NOTES

sigaction.2

Michael Kerrisk

Show the prototype of an SA_SIGINFO signal handler

signalfd.2

Michael Kerrisk

SIGKILL and SIGSTOP are silently ignored in 'mask'

sigprocmask.2

Dmitry V. Levin

Do not specify an exact value of rt_sigprocmask's 4th argument

As sizeof(kernel_sigset_t) is not the same for all architectures,

it would be better not to mention any numbers as its value.

Michael Kerrisk

'set' and 'oldset' can both be NULL

sigwaitinfo.2

Michael Kerrisk

sigwaitinfo() can't be used to accept synchronous signals

socketcall.2

Mike Frysinger

Document call argument

stat.2

Michael Kerrisk

Remove information migrated to inode(7) page

Michael Kerrisk

Restructure field descriptions as a hanging list

Michael Kerrisk

Remove "Other systems" subsection

These details about other systems were added in 1999,
and were probably of limited use then, and even less today.

However, they do clutter the page, so remove them.

Michael Kerrisk

DESCRIPTION: add

list entries for 'st_uid' and 'st_gid'

Michael Kerrisk

Add some subsection headings to ease readability

David Howells

ERRORS: correct description of ENOENT

Michael Kerrisk

Give 'struct stat' argument a more meaningful name ('statbuf')

Marcin Iusarz

Tweak description of AT_EMPTY_PATH

Currently it says when dirfd is AT_FDCWD it can be something
other than directory, which doesn't make much sense. Just swap
the order of sentences.

Michael Kerrisk

Add slightly expanded description of 'st_ino' field

Michael Kerrisk

DESCRIPTION: add a list entry for 'st_ino'

Michael Kerrisk

DESCRIPTION: add a list entry for 'st_nlinks' field

syscalls.2

Michael Kerrisk

Add membarrier(2)

Michael Kerrisk

Fix kernel version for userfaultfd(2)

Michael Kerrisk

Linux 4.11 added statx()

Michael Kerrisk

Include deprecated getunwind(2) in list

wait.2

Michael Kerrisk

Orphaned children may be adopted by a "subreaper", rather than by PD 1

bzero.3

Michael Kerrisk [Zack Weinberg]

Add correct header file for explicit_bzero()

cfree.3

Michael Kerrisk

cfree() is removed from glibc in version 2.26

exit.3

Michael Kerrisk

Improve discussion of zombie processes

getentropy.3

Nikos Mavrogiannopoulos [Michael Kerrisk, Florian Weimer]

Correct header file

Michael Kerrisk [Frank Theile]

SYNOPSIS: add missing return type for getentropy() declaration

grantpt.3

Michael Kerrisk

Tell a more nuanced story about what grantpt() does or does not do

insque.3

Michael Kerrisk

SEE ALSO: add queue(3)

queue.3

Michael Kerrisk

SEE ALSO: add insque(3)

shm_open.3

Michael Kerrisk

Clarify that POSIX shared memory uses tmpfs(5)

syslog.3

Michael Kerrisk [Ian Abbott, Walter Harms]

Reorganize page text for easier parsing and better readability

Michael Kerrisk

Various rewordings and improvements

Michael Kerrisk

Note default value for 'facility' when calling openlog()

Michael Kerrisk

SEE ALSO: add journalctl(1)

ttyname.3

Dmitry V. Levin

Document ENODEV error code

Christian Brauner

NOTES: warn about a confusing case that may occur with mount namespaces

wcsdup.3

Jan Heberer

RETURN VALUE: fix error in return value description

Return value for failure was accidentally changed from NULL to
-1 in man-pages commit 572acb41c48b6b8e690d50edff367d8b8b01702a.

elf.5

Michael Kerrisk

SEE ALSO: add elfedit(1), nm(1), size(1), strings(1), and strip(1)

nsswitch.conf.5

Florian Weimer

Mention sudoers

It turns out that sudo drops things into nsswitch.conf, too.

proc.5

Michael Kerrisk

Refer to namespaces(7) for discussion of /proc/sys/user/* files

Michael Kerrisk

Simplify /proc/slabinfo

entry

Don't repeat (out-of-date) info from slabinfo(5); just defer to
that page.

tmpfs.5

Michael Kerrisk

tmpfs supports extended attributes, but not 'user' extended attributes

environ.7

Jakub Wilk

Fix name of function that honors TMPDIR

tempnam() takes the TMPDIR environment variable into account, unlike
tmpnam(), which always creates pathnames within /tmp.

hostname.7

Marko Myllynen

Use lower case for hostname example

Marko Myllynen

Use generic names in examples

Marko Myllynen

Describe accepted characters for hostname

inotify.7

Michael Kerrisk [Nicolas Iooss]

Mounting a filesystem on top of a monitored directory causes no event

man-pages.7

Michael Kerrisk

Note preferred approach for 'duplicate' errors

pid_namespaces.7

Michael Kerrisk

The maximum nesting depth for PID namespaces is 32

user_namespaces.7

Stephan Bergmann

Fixes to example

While toying around with the `usersns_child_exec` example program on the `user_namespaces(7)` man page, I noticed two things:

* In the EXAMPLE section, we need to mount the new `/proc` before looking at `/proc/$$/status`, otherwise the latter will print information about the outer namespace's PID 1 (i.e., the real `init`). So the two paragraphs need to be swapped.

* In the program source, make sure to close `pipe_fd[0]` in the child before `exec'ing`.

pthread.7

Michael Kerrisk

SEE ALSO: add `pthread_rwlockattr_setkind_np(3)`

pty.7

Michael Kerrisk

Mention a couple of other applications of pseudoterminals

sem_overview.7

Michael Kerrisk

SEE ALSO: add `shm_overview(7)`

signal.7

Michael Kerrisk

SEE ALSO: add `sigreturn(2)`

tcp.7

Michael Kerrisk

Note indications for OOB data given by `select(2)` and `poll(2)`

Chema Gonzalez

`tcp_abc` was removed in 3.9

xattr.7

Michael Kerrisk

SEE ALSO: add `ioctl_iflags(2)`

People sometimes confuse `xattrs` and inode flags. Provide a link to the page that describes inode flags to give them a tip.

ld.so.8

Michael Kerrisk

Mention quoting when using "Rpath tokens" in `LD_AUDIT` and `LD_PRELOAD`

Michael Kerrisk
Expand description of /etc/ld.so.preload
Michael Kerrisk
Mention ldconfig(8) in discussion of /etc/ld.so.cache

zdump.8
Jakub Wilk
Add OPTIONS section heading

===== Changes in man-pages-4.12 =====

Released: 2017-07-13, London

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

ioctl_getfsmap.2

Darrick J. Wong

Document the GETFSMAP ioctl

Document the new GETFSMAP ioctl that returns the physical layout of a
(disk-based) filesystem.

Newly documented interfaces in existing pages

namespaces.7

Kirill Tkhai [Michael Kerrisk]

Document the /proc/[pid]/ns/pid_for_children file

Changes to individual pages

ldd.1

Michael Kerrisk

'objdump -p prog | grep NEEDED' doesn't give quite same info as 'ldd'

chmod.2

Michael Kerrisk

Put fchmod() feature test macro requirements in a more readable format

Michael Kerrisk

Note glibc 2.24 feature test macro requirements changes for fchmod()

chown.2

Michael Kerrisk

When file owner or group is changed, file capabilities are cleared

Michael Kerrisk

Changes to file owner by root also clear set-UID and set-GID bits

clone.2

Michael Kerrisk

Update BUGS to reflect fact that PID caching was removed in glibc 2.25

epoll_wait.2

Michael Kerrisk

Clarify semantics of returned 'data' field

The returned 'data' is the 'data' most recently set via
epoll_ctl().

get_mempolicy.2

Michael Kerrisk [Nadav Har'El, Andi Kleen]

SYNOPSIS: fix return type of get_mempolicy()

See https://bugzilla.kernel.org/show_bug.cgi?id=97051

getpid.2

Carlos O'Donell, Michael Kerrisk

Note that PID caching is removed as of glibc 2.25

Since glibc 2.25 the PID cache is removed.

Rationale given in the release notes:

https://sourceware.org/glibc/wiki/Release/2.25#pid_cache_removal

ioctl.2

Michael Kerrisk

SEE ALSO: add ioctl_getfsmap(2)

ioctl_getfsmap.2

Michael Kerrisk

Fix ordering of sections

Michael Kerrisk

Add VERSIONS section

Michael Kerrisk

ERRORS: order alphabetically

madvise.2

Michael Kerrisk

Remove bogus text re POSIX_MADV_NOREUSE

There is a POSIX_FADV_NOREUSE for posix_fadvise(),
but no POSIX_MADV_NOREUSE for any API in POSIX.

membarrier.2

Michael Kerrisk

Add ENOSYS error for 'nohz_full' CPU setting

mount.2

NeilBrown

Revise description of MS_REMOUNT | MS_BIND

MS_REMOUNT|MS_BIND affects all per-mount-point flag. MS_RDONLY is only special because it, uniquely, is both a per-mount-point flag *and* a per-filesystem flag.

So the sections of per-mount-point flags and MS_REMOUNT can usefully be clarified.

open.2

Michael Kerrisk

Note some further advantages of the *at() APIs

pipe.2

Michael Kerrisk

SEE ALSO: add tee(2) and vmsplice(2)

readv.2

Michael Kerrisk

glibc 2.26 adds library support for preadv2() and pwritev2()

sched_setaffinity.2

Michael Kerrisk

Mention cpuset cgroups as a cause of EINVAL error

seccomp.2

Mike Frysinger

Expand SECCOMP_RET_KILL documentation

sigaction.2

Michael Kerrisk

Note feature test macro requirements for 'si_code' constants

Michael Kerrisk

Add a subheading for the description of 'si_code'

Michael Kerrisk

TRAP_BRANCH and TRAP_HWBKPT are present only on IA64

sigaltstack.2

Michael Kerrisk

Note that specifying SS_ONSTACK in ss.ss_flags decreases portability

In the Illumos source (which presumably mirrors its Solaris ancestry), there is this check in the sigaltstack() implementation:

```
if (ss.ss_flags & ~SS_DISABLE)
```

```
return (set_errno(EINVAL));
```

And in the FreeBSD source we find similar:

```
if ((ss->ss_flags & ~SS_DISABLE) != 0)
```

```
return (EINVAL);
```

Michael Kerrisk

Note buggy addition of `ss.ss_flags==SS_ONSTACK`

Note buggy addition of `ss.ss_flags==SS_ONSTACK` as a synonym for `ss_flags==0`. No other implementation does this, AFAIK.

And it was not needed :-).

Michael Kerrisk

Specifying 'ss' returns the current settings without changing them

Michael Kerrisk

Give 'oss' argument a more meaningful name: 'old_ss'

Michael Kerrisk

Some minor reworking of the text

Michael Kerrisk

ERRORS: update description of EINVAL error

splice.2

tee.2

vmsplice.2

Michael Kerrisk

SEE ALSO: add pipe(7)

splice.2

Michael Kerrisk

ERRORS: split EINVAL error cases

Michael Kerrisk

ERRORS: add EINVAL for case where both descriptors refer to same pipe

timer_create.2

Michael Kerrisk

Document the CONFIG_POSIX_TIMERS option added in Linux 4.10

wait.2

Michael Kerrisk

Note glibc 2.26 changes

to feature test macro requirements for waitid()

acosh.3

asinh.3

atanh.3

Alex Henrie

Remove C89 designation.

See https://bugzilla.kernel.org/show_bug.cgi?id=196319

bsd_signal.3

Michael Kerrisk

Note feature test macro requirements changes for glibc 2.26

dl_iterate_phdr.3

Michael Kerrisk

dl_iterate_phdr() shows the order in which objects were loaded

dl_iterate_phdr() tells us not just which objects are

loaded, but also the order in which they are loaded

(the "link-map order"). Since the order is relevant for

understanding symbol resolution, give the reader this clue.

Michael Kerrisk

Expand the code example, and show sample output

Michael Kerrisk

List values for the 'p_type' field

dlsym.3

Michael Kerrisk

_GNU_SOURCE is needed to get RTLD_DEFAULT and RTLD_NEXT definitions

flockfile.3

Michael Kerrisk

Note glibc 2.24 feature test macro requirement changes

fpathconf.3

Michael Kerrisk

Rework RETURN VALUE description to add more detail

Michael Kerrisk

Add an errors section

Michael Kerrisk

Largely rewrite the description of _PC_CHOWN_RESTRICTED

Michael Kerrisk

Rewrite description of _PC_PIPE_BUF

The existing description was not accurate, and lacked details.

ftw.3

Michael Kerrisk

BUGS: document a probable glibc regression in FTW_SLN case

See https://bugzilla.redhat.com/show_bug.cgi?id=1422736

and <http://austingroupbugs.net/view.php?id=1121>.

getaddrinfo.3

Quentin Rameau

Fix _POSIX_C_SOURCE value for getaddrinfo()

The correct _POSIX_C_SOURCE value is 200112L, not 201112L in features.h.

getcontext.3

Carlos O'Donell

Exemplar structure should use 'ucontext_t'.

getgrent.3

Michael Kerrisk

Note glibc 2.22 changes for feature test macro requirements

grantpt.3

ptsname.3

unlockpt.3

Ferdinand

Thiessen [Michael Kerrisk]

Update feature test macro-requirements for glibc 2.24

if_nametoindex.3

Douglas Caetano dos Santos

Add ENODEV error for if_nametoindex()

malloc.3

Michael Kerrisk

Document the reallocarray() added in glibc 2.26

nl_langinfo.3

Michael Kerrisk

Note feature test macro requirements for nl_langinfo_l()

posix_madvise.3

Dr. Tobias Quathamer

Remove paragraph about POSIX_FADV_NOREUSE

POSIX_FADV_NOREUSE is documented for posix_fadvise, and a

corresponding POSIX_MADV_NOREUSE flag is not specified by POSIX.

See <https://bugs.debian.org/865699>

ptsname.3

Michael Kerrisk [Arjun Shankar]

Since glibc 2.26, ptsname_r() no longer gives EINVAL for buf==NULL

rand.3

Michael Kerrisk

Note glibc 2.24 feature test macro requirement changes for rand_r()

resolver.3

Michael Kerrisk

Add basic notes on 'op' argument of res_nmkquery() and res_mkquery()

sigpause.3

Michael Kerrisk

Note glibc 2.26 changes to feature test macro requirements

sigwait.3

Michael Kerrisk

Note glibc 2.26 feature test macro changes

strtol.3

Heinrich Schuchardt

Mention 0X prefix

The prefix 0x may be capitalized as 0X.

See ISO/IEC 9899:1999.

sysconf.3

Michael Kerrisk [Pavel Tikhomirov]

Rework RETURN VALUE description to add more detail

Make the discussion clearer, and add a few details.

Also, fix the problem report from Pavel Tikhomirov who noted that the man page falsely said that errno is not changed on a successful return.

Addresses https://bugzilla.kernel.org/show_bug.cgi?id=195955

Michael Kerrisk

Add ERRORS section

ttyslot.3

Michael Kerrisk

Fix error in feature test macro requirements

Michael Kerrisk

Note feature test macro requirements changes in glibc 2.24

Michael Kerrisk

Clarify

details of use of <stdlib.h> file

unlocked_stdio.3

Michael Kerrisk

Note glibc 2.24 feature test macro requirement changes

elf.5

Michael Kerrisk

SEE ALSO: add dl_iterate_phdr(3)

nsswitch.conf.5

DJ Delorie

Clarify group merge rules

This minor patch clarifies when merging is not done, and how duplicate entries are merged.

proc.5

Michael Kerrisk

Document that 'iowait' field of /proc/stat is unreliable

Text taken from Chao Fan's kernel commit 9c240d757658a3ae996.

slabinfo.5

Michael Kerrisk [Jorge Nerin]

SEE ALSO: add some references to relevant kernel source files

tmpfs.5

Michael Kerrisk

SEE ALSO: add memfd_create(2), mmap(2), shm_open(3)

capabilities.7

Michael Kerrisk

Clarify the effect on process capabilities when UID 0 does execve(2)

Michael Kerrisk

Note effect on capabilities when a process with UID != 0 does execve(2)

Michael Kerrisk [David

Lewis]

Fix reversed descriptions of CAP_MAC_OVERRIDE and CAP_MAC_ADMIN

Michael Kerrisk

SEE ALSO: add filecap(8), netcap(8), pscap(8)

cgroup_namespaces.7

Michael Kerrisk

Add some further explanation of the example shell session

Michael Kerrisk

Fix a bug in shell session example

inode.7

Michael Kerrisk

Note glibc 2.24 feature test macro changes for S_IFSOCK and S_ISSOCK()

man.7

G. Branden Robinson

Undocument "URL" macro in man(7) in favor .UR+.UE

pid_namespaces.7

Michael Kerrisk

Mention /proc/[pid]/ns/pid_for_children

pipe.7

Michael Kerrisk

SEE ALSO: add tee(2) and vmsplice(2)

sigevent.7

Michael Kerrisk

Mention signal.h header file

signal.7

Michael Kerrisk [lilydjwg]

Since Linux 3.8, read(2) on an inotify FD is restartable with SA_RESTART

See https://bugzilla.kernel.org/show_bug.cgi?id=195711

Michael Kerrisk

read() from an inotify FD is no

longer interrupted by a stop signal

(Change was in Linux 3.8.)

tcp.7

Michael Kerrisk

Document value '2' for tcp_timestamps

Since Linux 4.10, the value '2' is meaningful for tcp_timestamps

Ruben Kerkhof

Change default value of tcp_frto

The default changed in c96fd3d461fa495400df24be3b3b66f0e0b152f9

(Linux 2.6.24).

ld.so.8

Michael Kerrisk

Greatly expand the explanation of LD_DYNAMIC_WEAK

Carlos O'Donell

Expand DT_RUNPATH details.

ld.so.8: Expand DT_RUNPATH details.

Every 3 years we get asked why DT_RUNPATH doesn't work like DT_RPATH.

The most recent question was here:

<https://www.sourceware.org/ml/libc-help/2017-06/msg00013.html>

We need to expand the description of DT_RUNPATH to cover this situation and explain that the DT_RUNPATH entries apply only to the immediate DT_NEEDED, not that of another, say dlopen'd

child object.

Michael Kerrisk

Since glibc 2.2.5, LD_PROFILE is ignored in secure-execution mode

Michael Kerrisk

Make notes on secure-execute mode more prominent

Place each note on secure-execution mode in a separate paragraph, to make it more obvious.

Michael Kerrisk

Note that libraries in standard directories are not normally set-UID

In secure mode, LD_PRELOAD loads only libraries from standard directories that are marked set-UID. Note that it is unusual for a library to be marked in this way.

Michael Kerrisk

SEE ALSO: add elf(5)

Michael Kerrisk

Note version where secure-execution started ignoring LD_USE_LOAD_BIAS

Michael Kerrisk

Correct glibc version that ignores LD_SHOW_AUXV in secure-execution mode

Ignored since 2.3.4 (not 2.3.5).

Michael Kerrisk

Rewrite LD_DEBUG_OUTPUT description and note that .PID is appended

=====
Changes in man-pages-4.13 =====

Released: 2017-09-15, Munich

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

pthread_mutex_consistent.3

Yubin Ruan, Michael Kerrisk

New page documenting pthread_mutex_consistent(3)

pthread_mutexattr_getpshared.3

Michael Kerrisk

New page for pthread_mutexattr_getpshared(3) and pthread_mutexattr_setpshared(3)

pthread_mutexattr_init.3

Michael Kerrisk

New page for pthread_mutexattr_init(3) and pthread_mutexattr_destroy(3)

pthread_mutexattr_setrobust.3

Yubin Ruan, Michael Kerrisk

New page for pthread_mutexattr_setrobust(3) and pthread_mutexattr_getrobust(3)

sysfs.5

Michael Kerrisk [Mark Wiegaard]

New page documenting the sysfs filesystem

Just a skeleton page so far, but perhaps it will be filled out
over time.

Newly documented interfaces in existing pages

fcntl.2

Jens Axboe, Michael Kerrisk

Describe the set/get write hints commands that are added in Linux 4.13

Document F_GET_RW_HINT, F_SET_RW_HINT, F_GET_FILE_RW_HINT, and F_SET_FILE_RW_HINT.

ioctl_tty.2

Aleksa Sarai, Michael Kerrisk

Add TIOCGPTPEER documentation

kcmp.2

Cyrill Gorcunov

Add KCMP_EPOLL_TFD description

keyctl.2

Eugene Syromyatnikov

Document the KEYCTL_RESTRICT_KEYRING operation

Eugene Syromyatnikov [Stephan Müller]

Document the ability to provide KDF parameters in KEYCTL_DH_COMPUTE

New and changed links

pthread_mutexattr_destroy.3

Michael Kerrisk

New link to new pthread_mutexattr_init.3 page

pthread_mutexattr_getrobust.3

pthread_mutexattr_getrobust_np.3

pthread_mutexattr_setrobust_np.3

Michael Kerrisk

New links to new pthread_mutexattr_setrobust.3 page

pthread_mutexattr_setpshared.3

Michael Kerrisk

New link to new pthread_mutexattr_getpshared.3 page

Global changes

Various pages

Michael Kerrisk

Use .EX/.EE for EXAMPLE programs

Various pages

Michael Kerrisk

Use consistent markup for code snippets

Change `.nf/.fi` to `.EX/.EE`

Various pages

Michael Kerrisk

Use

consistent markup for code snippets

The preferred form is

`.PP/.IP`

`.in +4n`

`.EX`

`<code>`

`.EE`

`.in`

`.PP/.IP`

Various pages

Michael Kerrisk

Formatting fix: replace blank lines with `.PP/.IP`

Blank lines shouldn't generally appear in `*roff` source (other than in code examples), since they create large vertical spaces between text blocks.

Various pages

Michael Kerrisk [Bjarni Ingi Gislason]

Add a non-breaking space between a number and a unit (prefix)

Based on a patch by Bjarni Ingi Gislason.

Various pages

Michael Kerrisk [Bjarni Ingi Gislason]

Use en-dash for ranges

Based on a patch by Bjarni Ingi Gislason.

A few pages

Michael Kerrisk

Fix misordering of sections

Michael Kerrisk

Fix order of SEE ALSO entries

Changes to individual pages

ldd.1

Michael Kerrisk

Add more detail on ldd security implications, noting glibc 2.27 changes

add_key.2

backtrace.3

syslog.3

Michael Kerrisk

Fix misordered SEE ALSO entries

add_key.2

request_key.2

keyrings.7

Eugene Syromyatnikov

Update Linux documentation pointers

chown.2

Michael Kerrisk

Update kernel version in note on support for grp/nogrp mount options

There has been no change since Linux 2.6.25, so update the kernel version to 4.12.

execve.2

Michael Kerrisk

SEE ALSO: add get_robust_list(2)

getrandom.2

Michael Kerrisk [Fabio Scotoni]

SYNOPSIS: make return type of getrandom() 'ssize_t'

This accords with glibc headers and the Linux kernel source.

getrlimit.2

Thiago Jung Bauermann

Mention unit used by RLIMIT_CORE and RLIMIT_FSIZE

Michael Kerrisk

Note that RLIMIT_AS and RLIMIT_DATA are rounded down to system page size

Michael Kerrisk

Mention unit for RLIMIT_DATA

getrlimit.2

mmap.2

malloc.3

Jonas Grabber

RLIMIT_DATA affects mmap(2) since Linux 4.7

get_robust_list.2

Michael Kerrisk

Detail the operation of robust futex lists

Michael Kerrisk

Since Linux 2.6.28, robust futex lists also have an effect for `execve(2)`

Michael Kerrisk

Clarify that "thread ID" means "kernel thread ID"

Michael Kerrisk

SEE ALSO: add `pthread_mutexattr_setrobust(3)`

`ioctl_getfsmap.2`

Darrick J. Wong

Correct semantics of `FMR_OF_LAST` flag

`ioctl_userfaultfd.2`

Mike Rapoport

Document replacement of `ENOSPC` with `ESRCH`

Mike Rapoport

Update `uffdio_api.features` description

There is no requirement that `uffdio_api.features` must be zero for newer kernels. This field actually defines what features space would like to enable.

`io_submit.2`

Sage Weil

Acknowledge possibility of short return

Note

that the return value may be a value less than 'nr' if not all `iocbs` were queued at once.

`ipc.2`

Michael Kerrisk

SEE ALSO: add `svipc(7)`

`keyctl.2`

Eugene Syromyatnikov

mention `keyctl_dh_compute(3)` and `keyctl_dh_compute_alloc(3)`

These functions have been added in `keyutils 1.5.10`

Eugene Syromyatnikov

Mention `ENOMEM` in `ERRORS`

Eugene Syromyatnikov

Update kernel documentation path reference

`move_pages.2`

Otto Ebeling [Michael Kerrisk]

Note permission changes that occurred in Linux 4.13

`mprotect.2`

Michael Kerrisk [Shrikant Giridhar]

Add warning about the use of `printf()` in the example code

`open.2`

NeilBrown

Improve O_PATH documentation

- fstatfs is now permitted.
- ioctl isn't, and is worth listing explicitly
- O_PATH allows an automount point to be opened with triggering the mount.

prctl.2

seccomp.2

Eugene Syromyatnikov

Update pointer to in-kernel seccomp documentation

prctl.2

ptrace.2

Eugene Syromyatnikov

Update pointer to in-kernel Yama documentation

prctl.2

Eugene Syromyatnikov

Update pointer to in-kernel no_new_privs flag documentation

readlink.2

Michael Kerrisk [Jason Noakes]

Fix an off-by-one error in example code

seccomp.2

Kees Cook

Clarify SECCOMP_RET_KILL kills tasks not processes

select_tut.2

Michael Kerrisk [Sergey Z.]

Clarify an ambiguity with respect to select() and EAGAIN

See https://bugzilla.kernel.org/show_bug.cgi?id=196345

set_tid_address.2

Elliott Hughes

Note that there's no glibc wrapper for set_tid_address()

socket.2

Michael Kerrisk [Yubin Ruan]

socket() uses the lowest available file descriptor

_syscall.2

Michael Kerrisk

Remove redundant comment from EXAMPLE

A discussion of the nroff source of the manual page isn't very useful...

sysfs.2

Michael Kerrisk

Add a pointer to sysfs(5) to help possibly confused readers

Michael Kerrisk

Make it clearer near the start of the page that sysfs(2) is obsolete

timer_create.2

Michael Kerrisk

Strengthen the warning about use of printf() in the example program

Michael Kerrisk

Update cross reference: signal(7) should be signal-safety(7)

umount.2

NeilBrown

Revise MNT_FORCE description

MNT_FORCE does not allow a busy filesystem to be unmounted. Only MNT_DETACH allows that. MNT_FORCE only tries to abort pending transactions, in the hope that might help umount not to block,

Also, other filesystems than NFS support MNT_FORCE.

unshare.2

Eugene Syromyatnikov

Update pointer to in-kernel unshare documentation

wait.2

Michael Kerrisk []

POSIX.1-2008 TC1 clarifies treatment of 'si_pid' for waitid() WNOHANG

cmsg.3

Sukadev Bhattiprolu

Add

a scatter/gather buffer to sample code

Michael Kerrisk

Reorganize the text somewhat (no content changes)

crypt.3

Konstantin Shemyak [Michael Kerrisk]

Add description of previously undocumented 'rounds' parameter

Konstantin Shemyak

Encryption isn't done with SHA-xxx, but with a function based on SHA-xxx

Konstantin Shemyak

Clarify that ending of the salt string with '\$' is optional

exit.3

Michael Kerrisk

Mention the prctl(2) PR_SET_PDEATHSIG operation

Michael Kerrisk

SEE ALSO: add get_robust_list(2)

Michael Kerrisk

Add a heading to delimit discussion of signals sent to other processes

exp2.3

Alex Henrie

Remove C89 designation

log1p.3

Alex Henrie

Document fixes to give EDOM or ERANGE on error

matherr.3

Michael Kerrisk

Note that glibc 2.27 removes the 'matherr' mechanism

Michael Kerrisk

Remove crufty feature test macro requirements

pow10.3

Michael

Kerrisk

Note that pow10() is now obsolete in favor of exp10()

Also, the pow10() functions are no longer supported by glibc, starting with version 2.27.

sincos.3

Michael Kerrisk

Note that sincos() is intended to be more efficient than sin() + cos()

cciss.4

hpsa.4

Eugene Syromyatnikov [Don Brace, Meelis Roos]

Mention cciss removal in Linux 4.14

During the Linux 4.13 development cycle, the cciss driver has been removed in favor of the hpsa driver, which has been amended with some legacy board support.

initrd.4

proc.5

bootparam.7

Eugene Syromyatnikov

Update pointer to in-kernel initrd documentation

initrd.4

Eugene Syromyatnikov

Update pointer to in-kernel root over NFS documentation

intro.4

Michael Kerrisk

SEE ALSO: add mknod(1) and mknod(2)

host.conf.5

Michael Kerrisk

Add cross-reference to hosts(5)

locale.5

Marko Myllynen

Refer

to existing locales for encoding details

Since I don't think it would make sense to try to have different explanation for each glibc version on the locale(5) man page, I'm proposing that we apply the below patch so that we refer to existing locale definition files in general and not spell out the exact format or any certain locale as a definitive guideline.

nologin.5

Michael Kerrisk

Add a sentence explaining why nologin is useful

proc.5

Eugene Syromyatnikov

Document removal of htab-reclaim sysctl file

This PPC-specific sysctl option has been removed in Linux 2.4.9.2, according to historic Linux repository commit log.

Eugene Syromyatnikov

Add description for cpuN lines in /proc/stat

Eugene Syromyatnikov

Add description for softirq line in /proc/stat

Eugene Syromyatnikov

Document removal of timer_stats file

Michael Kerrisk

Note Linux

4.9 changes to privileges for /proc/[pid]/timerslack_ns

Michael Kerrisk

Show command used to mount /proc

Michael Kerrisk

Explicitly note in intro that some /proc files are writable

Eugene Syromyatnikov

Update pointer to in-kernel SysRq documentation

Michael Kerrisk

SEE ALSO: add sysfs(5)

Eugene Syromyatnikov

Update pointer to in-kernel security keys documentation

Benjamin Peterson

Fix path to binfmt_misc docs

Eugene Syromyatnikov

Update pointer to in-kernel MTRR documentation

Eugene Syromyatnikov

Update reference to kernel's crypto API documentation

tzfile.5

Paul Eggert

Sync from tzdb upstream

This makes tzfile.5 a copy of the tzdb version, except that the tzdb version's first line is replaced by man-pages boilerplate.

The new version documents version 3 format, among other things.

Also, it removes the "Summary of the timezone information

file

format" section, which should no longer be needed due to improvements in the part of the man page.

capabilities.7

Michael Kerrisk

Note semantics for a program that is set-UID-root and has capabilities

Note semantics for a program that is both set-user-ID-root and has file capabilities.

Michael Kerrisk [Dennis Knorr]

Note that a set-UID-root program may have an empty file capability set

cgroups.7

Michael Kerrisk

SEE ALSO: systemd-cgls(1)

cpuset.7

Eugene Syromyatnikov

Update pointer to in-kernel cpusets documentation

keyrings.7

Eugene Syromyatnikov

Document description restriction for logon keys

"logon" type has additional check that enforces colon-separated prefix in key descriptions.

Eugene Syromyatnikov

Add pointers to kernel's documentation

Mostly because of asymmetric-keys.txt, which is outside security/keys

for some reason.

man-pages.7

Michael Kerrisk

Expand the guidance on formatting code snippets

netlink.7

David Wilder

Change buffer size in example code about reading netlink message

Michael Kerrisk [Rick Jones]

Add a comment on 8192 buffer size in example code

pthread.7

Michael Kerrisk

SEE ALSO: add pthread_mutexattr_destroy(3) and pthread_mutexattr_init(3)

signal.7

Michael Kerrisk

Since glibc 2.26, SIGUNUSED is no longer defined

tcp.7

Vincent Bernat

tcp_tw_recycle is removed from Linux 4.12

And it is completely broken.

unicode.7

Eugene Syromyatnikov

Update pointer to in-kernel Unicode terminal support documentation

===== Changes in man-pages-4.14 =====

Released: 2017-11-27, Paris

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

pthread_spin_init.3

Michael Kerrisk [Peter Zijlstra, Thomas Gleixner, Zack Weinberg,
Florian Weimer]

New page describing pthread_spin_init(3) and pthread_spin_destroy(3)

pthread_spin_lock.3

Michael Kerrisk [Carlos O'Donell]

New page describing functions that lock and unlock spin locks

Add a page describing pthread_spin_lock(3), pthread_spin_unlock(3),
and pthread_spin_trylock(3).

smartpqi.4

Don Brace [Michael Kerrisk, G. Branden Robinson]

Document the smartpqi SCSI driver

veth.4

Tomáš Pospíšek, Eric Biederman, Michael Kerrisk

New page documenting veth virtual ethernet devices

Based on a page from Tomáš Pospíšek, with some clean-ups by mtk.

Removed pages

infnan.3:

Michael Kerrisk

This function was in libc4 and libc5, but never part

of glibc. It ceased to be relevant nearly 20 years ago. Time to remove the man page.

Newly documented interfaces in existing pages

ioctl_userfaultfd.2

userfaultfd.2

Prakash Sangappa [Andrea Arcangeli, Mike Rapoport]

Add description for UFFD_FEATURE_SIGBUS

madvise.2

Rik van Riel [Colm MacCárthaigh, Michael Kerrisk]

Document MADV_WIPEONFORK and MADV_KEEPPONFORK

Michael Kerrisk

Note fork() and execve() semantics for wipe-on-fork setting

membarrier.2

Mathieu Desnoyers

Update membarrier manpage for 4.14

Add documentation for these new membarrier() commands:

MEMBARRIER_CMD_PRIVATE_EXPEDITED

MEMBARRIER_CMD_REGISTER_PRIVATE_EXPEDITED

memfd_create.2

Mike Kravetz

Add description of MFD_HUGETLB (hugetlbfs) support

hugetlbfs support for memfd_create() was recently merged by Linus

and should be in the Linux 4.14 release. To request hugetlbfs

support a new memfd_create() flag (MFD_HUGETLB) was added.

readv.2

Christoph Hellwig

Document RWF_NOWAIT added in Linux 4.14

seccomp.2

Tyler Hicks

Document the SECCOMP_GET_ACTION_AVAIL operation added in Linux 4.14

Tyler Hicks

Document the SECCOMP_FILTER_FLAG_LOG

flag added in Linux 4.14

Tyler Hicks

Document the SECCOMP_RET_LOG action added In Linux 4.14

Michael Kerrisk [Kees Cook]

Add description of SECCOMP_RET_KILL_PROCESS

Michael Kerrisk

Add SECCOMP_RET_KILL_THREAD description and rework SECCOMP_RET_KILL text

Michael Kerrisk

Document the seccomp audit logging feature added in Linux 4.14

seccomp.2

proc.5

Tyler Hicks

Document the seccomp /proc interfaces added in Linux 4.14

Document the seccomp /proc interfaces in Linux 4.14:

/proc/sys/kernel/seccomp/actions_avail and

/proc/sys/kernel/seccomp/actions_logged.

sigaltstack.2

Michael Kerrisk [Stas Sergeev]

Document the SS_AUTODISARM flag added in Linux 4.7

proc.5

Michael Kerrisk

Document /proc/locks

Oliver Ebert

Document /proc/kpagecgroup

Oliver Ebert

Add KPF_BALLOON, KPF_ZERO_PAGE, and KPF_IDLE for /proc/kpageflags

pid_namespaces.7

Michael Kerrisk

Document /proc/sys/kernel/ns_last_pid

New and changed links

pthread_spin_destroy.3

Michael Kerrisk

New link to new pthread_spin_init.3 page

pthread_spin_trylock.3

pthread_spin_unlock.3

Michael Kerrisk

New links to new pthread_spin_lock.3 page

Global changes

Various pages

Michael Kerrisk

Consistently use "x86-64", not "x86_64"

When referring to the architecture, consistently use "x86-64",

not "x86_64". Hitherto, there was a mixture of usages, with "x86-64" predominant.

Various pages

G. Branden Robinson

Replace incorrect uses of Latin abbreviation "cf.".

People seem to be using "cf." ("conferre"), which means "compare", to mean "see" instead, for which the Latin abbreviation would be "q.v." ("quod vide" -> "which see").

In some cases "cf." might actually be the correct term but it's still not clear what specific aspects of a function/system call one is supposed to be comparing.

Changes to individual pages

capget.2

Michael Kerrisk

Clarify discussion of kernels that have no VFS capability support

clock_getres.2

Michael Kerrisk

clock_gettime() may be implemented in the vDSO

clone.2

Michael Kerrisk

Warn that the clone() wrapper modifies child_stack in the parent

Michael Kerrisk

Rework the discussion of the historical CLONE_PID for clarity

Michael Kerrisk

Add NOTES heading

Michael Kerrisk

Add a reference to new veth(4) page

Michael Kerrisk

Eliminate some redundant phrasing in discussion of "fn()"

Michael Kerrisk

Combine redundant paragraphs describing child_stack==NULL

Michael Kerrisk

Note that child_stack can be NULL when using the raw system call

Michael Kerrisk

Remove a redundant paragraph

connect.2

Michael Kerrisk

Clarify that ECONNREFUSED is for stream sockets

fcntl.2

Michael Kerrisk [Jens Axboe]

Inode read-write hints persist only until the filesystem is unmounted

flock.2

Michael Kerrisk

Move NFS details to a headed subsection

Michael Kerrisk [Petr Uzel]

Placing an exclusive lock over NFS requires the file is open for writing

fork.2

Rik van Riel [Colm MacCárthaigh, Michael Kerrisk]

Document effect of MADV_WIPEONFORK

fork.2

getsid.2

setpgid.2

setsid.2

Ahmad Fatoum

Include `<sys/types.h>` in SYNOPSIS to obtain declaration of `pid_t`

fsync.2

Craig Ringer

ERRORS: add ENOSPC

getcpu.2

Michael Kerrisk

`getcpu()` may have an implementation in the vDSO

getpid.2

Michael Kerrisk

Mention that `PID == TGID`, and note contrast with `TID`

Michael Kerrisk

SEE ALSO: add `gettid(2)`

getrandom.2

Michael Kerrisk [Fabio Scotoni]

ERRORS: add ENOSYS

getrlimit.2

Michael Kerrisk [Scott Vokes]

Make it clear `RLIMIT_NPROC` is a limit on current number of processes

<https://twitter.com/silentbicycle/status/893849097903505409>

gettid.2

Michael Kerrisk

SEE ALSO: add `getpid(2)`

gettimeofday.2

Michael Kerrisk

Note that gettimeofday() may be implemented in the vDSO

ioctl_userfaultfd.2

Michael Kerrisk

Rework version information for feature bits

io_submit.2

Goldwyn Rodrigues

Add iocb details to io_submit

Add more information about the iocb structure. Explains the fields of the I/O control block structure which is passed to the io_submit() call.

Michael Kerrisk

Add cross-reference to io_getevents(2)

Michael Kerrisk

Cross reference pwritev(2) in discussion of RWF_SYNC and RWF_DSYNC

membarrier.2

Mathieu Desnoyers

Update example to take TSO into account

The existing example given specifically states that

it focus on

x86 (TSO memory model), but gives a read-read vs write-write ordering example, even though this scenario does not require explicit barriers on TSO.

So either we change the example architecture to a weakly-ordered architecture, or we change the example to a scenario requiring barriers on x86.

Let's stay on x86, but provide a Dekker as example instead.

Mathieu Desnoyers

Adapt the MEMBARRIER_CMD_SHARED return value documentation to reflect that it now returns -EINVAL when issued on a system configured for nohz_full.

memfd_create.2

Michael Kerrisk

Note the limit for size of 'name'

mkdir.2

Michael Kerrisk [Raghavendra D Prabhu]

ERRORS: document EINVAL error for invalid filename

mmap.2

Michael Kerrisk

Add explicit text noting that 'length' must be greater than 0

Currently, this detail is hidden in ERRORS.

Make it clear in

the main text.

Michael Kerrisk

SEE ALSO: add ftruncate(2)

mremap.2

Mike Kravetz [Florian Weimer, Jann Horn]

Add description of old_size == 0 functionality

Since at least the 2.6 time frame, mremap() would create a new mapping of the same pages if 'old_size == 0'. It would also leave the original mapping. This was used to create a 'duplicate mapping'.

A recent change was made to mremap() so that an attempt to create a duplicate a private mapping will fail.

Michael Kerrisk [Michal Hocko, Mike Kravetz]

BUGS: describe older behavior for old_size==0 on private mappings

Explain the older behavior, and why it changed. This is a follow-up to Mike Kravetz's patch documenting the behavior for old_size==0 with shared mappings.

Michael Kerrisk

Reformat EINVAL errors as a list

open.2

Michael Kerrisk

By contrast with O_RDONLY, no file permissions are required for O_PATH

Note one of the significant advantages of O_PATH: many of the operations applied to O_PATH file descriptors don't require read permission, so there's no reason why the open() itself should require read permission.

Michael Kerrisk

Note use of O_PATH to provide O_EXEC functionality

Michael Kerrisk

Mention O_PATH file descriptor use with fexecve(3)

Michael Kerrisk

ERRORS: document EINVAL error for invalid filename

Michael Kerrisk

Clarify that O_TMPFILE creates a *regular* file

Michael Kerrisk

Make it explicit that O_CREAT creates a regular file

Michael Kerrisk

Since glibc 2.26, the open() wrapper always uses the openat() syscall

Michael Kerrisk

Change pathname used in discussion of rationale for openat()

/path/to/file is a little confusing as a pathname

Michael Kerrisk

Make the purpose of open() a little clearer at the start of the page

open_by_handle_at.2

NeilBrown

Clarifications needed due to NFS reexport

NeilBrown [Lennart Poettering]

Clarify MAX_HANDLE_SZ

As hinted in the kernel source, MAX_HANDLE_SZ is a hint rather than a promise.

pipe.2

Michael Kerrisk [Marin H.]

Since Linux 4.5, fcntl() can be used to set O_DIRECT for a pipe

See https://bugzilla.kernel.org/show_bug.cgi?id=197917

pivot_root.2

Michael Kerrisk

SEE ALSO: add switch_root(8)

pkey_alloc.2

Breno Leitao

Fix argument order

Currently pkey_alloc() syscall has two arguments, and the very first argument is still not supported and should be set to zero.

The second argument is the one that should specify the page access rights.

ptrace.2

Michael Kerrisk

SEE ALSO: add ltrace(1)

reboot.2

Michael Kerrisk [Micha Zegan]

Fix bogus description of reboot() from non-initial PID namespace

The current text was confused (mea culpa). No signal is sent to the init() process. Rather, depending on the 'cmd' given to reboot(), the 'group_exit_code' value will set to either SIGHUP or SIGINT, with the effect that one of those signals is reported to wait() in the parent process.

See https://bugzilla.kernel.org/show_bug.cgi?id=195899

Michael Kerrisk

SEE ALSO: remove reboot(8) (synonym for halt(8)); add shutdown(8)

Michael Kerrisk

SEE ALSO: add systemctl(1), systemd(1)

recvmmsg.2

sendmmsg.2

Elliot Hughes

Type fixes in SYNOPSIS

[mtk: The raw system calls use "unsigned int", but the glibc wrappers have "int" for the 'flags' argument.]

sched_setaffinity.2

Michael Kerrisk

SEE ALSO: add numactl(8)

sched_yield.2

Michael Kerrisk [Peter Zijlstra]

sched_yield()

is intended for use with real-time scheduling policies

seccomp.2

Michael Kerrisk [Adhemerval Zanella, Florian Weimer, Kees Cook]

Add some Caveats regarding the use of seccomp filters

Michael Kerrisk

Document the "default" filter return action

The kernel defaults to either SECCOMP_RET_KILL_PROCESS or SECCOMP_RET_KILL_THREAD for unrecognized filter return action values.

Michael Kerrisk [Kees Cook]

Change SECCOMP_RET_ACTION to SECCOMP_RET_ACTION_FULL

In Linux 4.14, the action component of the return value switched from being 15 bits to being 16 bits. A new macro, SECCOMP_RET_ACTION_FULL, that masks the 16 bits was added, to replace the older SECCOMP_RET_ACTION.

Michael Kerrisk

Explicitly note that other threads survive SECCOMP_RET_KILL_THREAD

Michael Kerrisk

SEE ALSO: add strace(1)

send.2

Grégory Vander Schueren

Add EALREADY to ERRORS

setns.2

Michael Kerrisk

SEE ALSO: add nsenter(1)

shmop.2

Yubin Ruan

Note that return value of shmat() is page-aligned

sigaction.2

Michael Kerrisk

Rework discussion of SA_SIGINFO handler arguments
Expand and rework the text a little, in particular adding
a reference to sigreturn(2) as a source of further
information about the ucontext argument.

Michael Kerrisk

Mention that libc sets the act.sa_restorer field

sigaltstack.2

Michael Kerrisk [Walter Harms]

Reword BUGS text to be a little clearer

Michael Kerrisk

Add explicit error handling to example code

Michael Kerrisk

Add use of sigaction() to example code

sigreturn.2

Michael Kerrisk

Make it a little clearer that a stack frame is created by the kernel

Michael Kerrisk

glibc has a simple wrapper for sigreturn() that returns ENOSYS

splice.2

Michael Kerrisk

Since Linux 2.6.31, 'fd_in'
and 'fd_out' may both refer to pipes

stat.2

Michael Kerrisk [Richard Knutsson]

Use lstat() instead of stat()

It's more logical to use lstat() in the example code,
since one can then experiment with symbolic links, and
also the S_IFLNK case can also occur.

NeilBrown

Correct AT_NO_AUTOMOUNT text and general revisions
Expand on the relationship between fstatat() and the other three
functions, and improve the description of AT_NO_AUTOMOUNT.
Specifically, both stat() and lstat() act the same way with
respect to automounts, and that behavior matches fstatat() with
the AT_NO_AUTOMOUNT flag.

statfs.2

Michael Kerrisk

Add some comments noting filesystems that are no longer current

Michael Kerrisk

Add comments describing a few filesystem types

time.2

Michael Kerrisk

Note that time() may be implemented in the vDSO

Michael Kerrisk

[Victor Porton]

Language fix-up: clarify that "tasks" means "work"

See https://bugzilla.kernel.org/show_bug.cgi?id=197183

userfaultfd.2

Mike Rapoport

BUGS: document spurious UFFD_EVENT_FORK

write.2

fsync.2

close.2

NeilBrown [Jeff Layton]

Update description of error codes

Since 4.13, errors from writeback are more reliably reported to all file descriptors that might be relevant.

Add notes to this effect, and also add detail about ENOSPC and EDQUOT which can be delayed in a similar many to EIO - for NFS in particular.

abort.3

Michael Kerrisk

Starting with glibc 2.27, abort() does not attempt to flush streams

Michael Kerrisk

SEE ALSO: add assert(3)

backtrace_symbols_fd(3)

Stefan Puiu [Walter Harms]

backtrace_symbols_fd() can trigger a call to malloc()

daemon.3

Michael Kerrisk

SEE ALSO: add daemon(7), logrotate(8)

errno.3

Michael

Kerrisk

Note use of errno(1) to look up error names and numbers

Michael Kerrisk

Update error list for POSIX.1-2008

POSIX.1-2008 specified a couple of new errors not present in POSIX.1-2001.

Michael Kerrisk [Walter Harms]

Note the use of perror(3) and strerror(3)

Michael Kerrisk

Recast the advice against manually declaring 'errno'

Recast the advice against manually declaring 'errno' to a more modern perspective. It's 13 years since the original text was added, and even then it was describing old behavior.

Cast the description to be about behavior further away in time, and note more clearly that manual declaration will cause problems with modern C libraries.

Michael Kerrisk

Add some missing errors

Michael Kerrisk

Error numbers are positive values (rather than nonzero values)

POSIX.1-2008 noted the explicitly

the change (to align with

the C standards) that error numbers are positive, rather than nonzero.

Michael Kerrisk

Reorganize the text and add some subheadings

Restructure the text and add some subheadings for better readability. No (intentional) content changes.

Michael Kerrisk [Wesley Apteekar-Cassels]

Note that error numbers vary somewhat across architectures

Added after a patch from Wesley Apteekar-Cassels that proposed to add error numbers to the text.

Michael Kerrisk

Note the <errno.h> also provides the symbolic error names

Michael Kerrisk [Walter Harms]

Explicitly note that error numbers vary also across UNIX systems

exec.3

Michael Kerrisk

glibc 2.24 dropped CWD from the default path

Document the glibc 2.24 change that dropped CWD from the default search path employed by execlp(), execvp() and execvpe() when PATH

is not defined.

fexecve.3

Michael Kerrisk

O_PATH file descriptors are also usable with fexecve()

Cristian Rodríguez

fexecve() is now implemented with execveat(2), where available

Michael Kerrisk

Add some detail on the glibc implementation of fexecve() via execveat(2)

ffs.3

Michael Kerrisk

glibc 2.27 relaxes the FTM requirements for ffs1() and ffsll()

get_nprocs_conf.3

Michael Kerrisk

SEE ALSO: add nproc(1)

lround.3

Michael Kerrisk [David Eckardt]

Clarify that lround() rounds "halfway cases" away from zero

See https://bugzilla.kernel.org/show_bug.cgi?id=194601

makedev.3

Adrian Bunk

glibc has deprecated exposing the definitions via <sys/types.h>

mallinfo.3

Jakub Wilk

Fix the example

Remove reference to non-standard "tspi_hdr.h" and replace calls to functions that were declared in this header.

malloc.3

Michael Kerrisk

SEE ALSO: add valgrind(1)

popen.3

Michael Kerrisk

Add a cross reference to Caveats in system(3)

All of the same risks regarding system() also apply to popen().

pthread_detach.3

Michael Kerrisk [Rahul Bedarkar]

Improve sentence describing freeing of resources on process termination

As reported by Rahul, the existing sentence could be read as meaning that resources of joined and terminated detached threads are freed only at process termination. Eliminate that possible misreading.

pthread_yield.3

Michael Kerrisk [Peter Zijlstra]

pthread_yield() is intended for use with real-time scheduling policies

setlocale.3

Michael Kerrisk [Kištof Želechovski]

The standards do not specify all of the locale categories

socketmark.3

Seonghun Lim

Fix cruft in code example

stdio.3

Michael Kerrisk

Use proper section cross references in function list

Michael Kerrisk

Remove crufty

reference to pc(1)

sysconf.3

Michael Kerrisk

Mention `get_nprocs_conf(3)`

Mention `get_nprocs_conf(3)` in discussion of `_SC_NPROCESSORS_CONF` and `_SC_NPROCESSORS_ONLN`.

system.3

Michael Kerrisk [Bastien Roucaries]

Create a "Caveats" subsection to hold warnings about the use of `system()`

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=882222>

Michael Kerrisk [Bastien Roucaries]

Mention `PATH` explicitly in discussion of `system()` and set-UID programs

Michael Kerrisk [Bastien Roucaries]

Note that user input for `system()` should be carefully sanitized

Michael Kerrisk

Mention file capabilities in discussion of privileged programs

Michael Kerrisk

Correctly note which shell Debian uses as (noninteractive) `/bin/sh`

core.5

Michael Kerrisk

Add some notes on `systemd` and core dumps

Michael Kerrisk

Dumps are not produced if `core_pattern` is empty and `core_uses_pid` is 0

Michael Kerrisk [Per Böhlin]

`RLIMIT_CORE` is not enforced when piping core dump to a program

Michael Kerrisk

SEE ALSO: add `systemd-coredump(8)`

Michael Kerrisk

SEE ALSO: add `coredumpctl(1)`

filesystems.5

Michael Kerrisk [Jonny Grant]

Replace crufty URL reference for 'smb' with up-to-date URL

Michael Kerrisk [Jonny Grant]

Refer to VFAT as an extended FAT (not DOS) filesystem

proc.5

Michael Kerrisk [Miklos Szered, Ram Pai]

Correct the description of the parent mount ID for `/proc/PID/mountinfo`

Oliver Ebert

Add mmap-exclusive bit for /proc/[pid]/pagemap

Marcus Folkesson

Update description of /proc/<pid>/oom_score

Lucas Werkmeister

Clarify permissions in /proc/[pid]/fd/

Michael Kerrisk

Add reference to pid_namespaces(7) for /proc/sys/kernel/ns_last_pid

shells.5

Michael Kerrisk

SEE ALSO: add pam_shells(8)

sysfs.5

Michael Kerrisk

Add a brief explanation

of /sys/kernel

Michael Kerrisk

Add a brief description of /sys/class/net

Michael Kerrisk

Add a brief description of /sys/kernel/mm

Michael Kerrisk

Add brief description of /sys/kernel/debug/tracing

Michael Kerrisk

Add a description of /sys/kernel/mm/hugepages

arp.7

Michael Kerrisk

SEE ALSO: add arpd(8)

capabilities.7

Michael Kerrisk

Add a reference to xattr(7) in the discussion of extended attributes

Michael Kerrisk

SEE ALSO: add captest(8)

epoll.7

Michael Kerrisk

Note existence of kcmp() KCMP_EPOLL_TFD operation

fifo.7

Michael Kerrisk

Refer reader to pipe(7) for details of I/O semantics of FIFOs

hier.7

Michael Kerrisk

SEE ALSO: add file-hierarchy(7)

icmp.7

Michael Kerrisk

SEE ALSO: add rdisc(8)

man-pages.7

Michael Kerrisk

Note that "x86-64" is generally preferred over "x86_64"

G. Branden Robinson

Add a use case for real

minus character

namespaces.7

Michael Kerrisk

Add a reference to new veth(4) page

Michael Kerrisk

EXAMPLE: refer also to example in clone(2)

pid_namespaces.7

Michael Kerrisk

SEE ALSO: add reboot(2)

Add because reboot(2) has special semantics for non-initial

PID namespaces.

pthread.7

Michael Kerrisk

SEE ALSO: add pthread_spin_init(3) and pthread_spin_lock(3)

socket.7

Michael Kerrisk [Petr Malat, Tobias Klausmann]

Correct the description of SO_RXQ_OVFL

standards.7

Michael Kerrisk

SEE ALSO: add getconf(1), confstr(3), pathconf(3), sysconf(3)

user_namespaces.7

Christian Brauner [Michael Kerrisk]

Document new 340 line idmap limit

ld.so.8

Michael Kerrisk [Yubin Ruan]

Simplify language around conferring capabilities

The statement "conferring permitted or effective capabilities" to the process is somewhat redundant. Binaries with capabilities confer capabilities only to those process capability sets, so it's simpler to just say "confers capabilities to the process".

Released: 2018-02-02, Palo Alto

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

s390_sthyi.2

QingFeng Hao [Michael Kerrisk]

New page for s390-specific s390_sthyi(2)

network_namespaces.7

Michael Kerrisk

New page describing network namespaces

Based on content moved from namespaces(7)

vsock.7

Stefan Hajnoczi [Jorgen Hansen, Michael Kerrisk]

Document the VSOCK socket address family

Newly documented interfaces in existing pages

cgroups.7

Michael Kerrisk [Tejun Heo]

Document cgroups v2 "thread mode"

Michael Kerrisk [Tejun Heo]

Document cgroup v2 delegation via the 'nsdelegate' mount option

Michael Kerrisk

Document the cgroup.max.depth and cgroup.max.descendants files

Michael Kerrisk

Document 'release_agent' mount option

Michael Kerrisk [Roman Gushchin]

Document /sys/kernel/cgroup/delegate

Michael Kerrisk [Roman Gushchin]

Document /sys/kernel/cgroup/features

Michael Kerrisk [Roman Gushchin]

Document cgroups v2 cgroup.stat file

Global changes

Various pages

G. Branden Robinson

Standardize on "nonzero"

Also add this term to the style guide in man-pages(7).

Changes to individual pages

bpf.2

Nikolay Borisov

Sync list of supported map types with 4.14 kernel

copy_file_range.2

Michael Kerrisk

Library support was added in glibc 2.27

Shawn Landden

glibc provides a

user-space emulation where the system call is absent

Florian Weimer

EFBIG errors are possible, similar to write(2)

Michael Kerrisk

ERRORS: add EISDIR

Michael Kerrisk

Order ERRORS alphabetically

Michael Kerrisk

Add comment to code example explaining use of syscall(2)

fcntl.2

read.2

write.2

NeilBrown

Document "Lost locks" as cause for EIO.

If an advisory lock is lost, then read/write requests on any affected file descriptor can return EIO - for NFSv4 at least.

memfd_create.2

Michael Kerrisk

glibc support for memfd_create() was added in version 2.27

mlock.2

Michael Kerrisk

Make details for MLOCK_ONFAULT a little more explicit

Michael Kerrisk

glibc support for mlock2() is added in version 2.27

mmap.2

John Hubbard [Michael Hocko]

MAP_FIXED is no longer discouraged

MAP_FIXED has been widely used for a very long time, yet the man page

still claims that "the use of this option is discouraged".

John Hubbard

MAP_FIXED updated documentation

-- Expand the documentation to discuss the hazards in enough detail to allow avoiding them.

-- Mention the upcoming MAP_FIXED_SAFE flag.

-- Enhance the alignment requirement slightly.

mount.2

Keno Fischer [Michael Kerrisk]

Add EINVAL error condition when MS_BINDING MNT_LOCKED submounts

mprotect.2

pkey_alloc.2

Michael Kerrisk

Glibc support for memory protection keys was added in version 2.27

perf_event_open.2

Michael Kerrisk

SEE ALSO: add perf(1)

pkey_alloc.2

Michael Kerrisk

Clarify description of pkey_alloc() 'flags' argument

prctl.2

Michael Kerrisk

Defer to capabilities(7) for discussion of the "keep capabilities" flag

recvmsg.2

sendmsg.2

Nikola Forró

Point out that error handling is unreliable

seccomp.2

Michael Kerrisk

Clarify that SECCOMP_RET_TRAP SIGSYS signal is thread-directed

syscalls.2

Michael Kerrisk

Add s390-specific s390_sthyi(2) to syscall list

unshare.2

Michael Kerrisk

Clarify that EUSERS occurred only until kernel 4.8

errno.3

Michael Kerrisk

'errno -s' can be used to search for errors by string in description

Michael Kerrisk

Add Linux error text corresponding to ENOMEM

fgetpwent.3

Michael Kerrisk

Add missing ATTRIBUTES preamble

fts.3

Michael Kerrisk [Pradeep Kumar]

fts_pathlen = strlen(fts_path) + strlen(fts_name)

fuse.4

Michael Kerrisk

Places errors in alphabetical order (no content changes)

veth.4

Michael Kerrisk

Add network_namespaces(7)

sysfs.5

Michael Kerrisk

Refer to cgroups(7) for information about files in /sys/kernel/cgroup

capabilities.7

Michael Kerrisk

Note which capability sets are affected by SECBIT_NO_SETUID_FIXUP

Note explicitly

that SECBIT_NO_SETUID_FIXUP is relevant for

the permitted, effective, and ambient capability sets.

Michael Kerrisk

Deemphasize the ancient prctl(2) PR_SET_KEEPCAPS command

The modern approach is SECBITS_KEEP_CAPS.

Michael Kerrisk

Clarify effect of CAP_SETFCAP

Make it clear that CAP_SETFCAP allows setting arbitrary capabilities on a file.

Michael Kerrisk

Clarify which capability sets are effected by SECBIT_KEEP_CAPS

This flag has relevance only for the process permitted and effective sets.

Michael Kerrisk

Rephrase CAP_SETPCAP description

* Mention kernel versions.

* Place current kernel behavior first

Michael Kerrisk

SECBIT_KEEP_CAPS is ignored if SECBIT_NO_SETUID_FIXUP is set

Michael Kerrisk

Ambient set is also cleared when UIDs are set to nonzero value

cgroups.7

Michael Kerrisk

Add a more complete description

of cgroup v1 named hierarchies

Michael Kerrisk

Add a section on unmounting cgroup v1 filesystems

Michael Kerrisk

Add subsection describing cgroups v2 subtree delegation

Michael Kerrisk

Mention ENOENT error that can occur when writing to subtree_control file

Michael Kerrisk

Add list of currently available version 2 controllers

Nikolay Borisov

Add information about RDMA controller

Michael Kerrisk

Rewrite the description of cgroup v2 subtree control

Michael Kerrisk [Tejun Heo]

Note Linux 4.11 changes to cgroup v2 delegation containment rules

Michael Kerrisk

systemd(1) nowadays automatically mounts the cgroup2 filesystem

Michael Kerrisk

Clarify that cgroup.controllers is read-only

Michael Kerrisk

Elaborate a little on problems of splitting threads across cgroups in v1

Michael Kerrisk [Tejun Heo]

Tweak the description of delegation of cgroup.subtree_control

ip.7

Ricardo Biehl Pasquali

INADDR_* values cannot be assigned directly to 's_addr'

Michael Kerrisk

s/INADDR_ANY/INADDR_LOOPBACK/ in discussion of htonl()

INADDR_LOOPBACK is a better example, since it is not
byte-order neutral.

namespaces.7

network_namespaces.7

Michael Kerrisk

Move content from namespaces(7) to network_namespaces(7)

pid_namespaces.7

Michael Kerrisk

SEE ALSO: add mount_namespaces(7)

sched.7

Michael Kerrisk [Andrea Parri]

Correctly describe effect of priority changes for RT threads

The placement of a thread in the run queue for its new
priority depends on the direction of movement in priority.
(This appears to contradict POSIX, except in the case of
pthread_setschedprio().)

user_namespaces.7

Michael Kerrisk

Mention NS_GET_OWNER_UID ioctl() operation

==== Changes in man-pages-4.16 =====

Released:
2018-04-30, Munich

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

membarrier.2

Mathieu Desnoyers [Michael Kerrisk]

Document new membarrier commands introduced in Linux 4.16

Document the following membarrier commands introduced in Linux 4.16:

`MEMBARRIER_CMD_GLOBAL_EXPEDITED`

(the old enum label `MEMBARRIER_CMD_SHARED` is now an alias to preserve header backward compatibility)

`MEMBARRIER_CMD_REGISTER_GLOBAL_EXPEDITED`

`MEMBARRIER_CMD_PRIVATE_EXPEDITED_SYNC_CORE`

`MEMBARRIER_CMD_REGISTER_PRIVATE_EXPEDITED_SYNC_CORE`

mmap.2

Jan Kara [Ross Zwisler, Michael Kerrisk]

Add description of `MAP_SHARED_VALIDATE` and `MAP_SYNC`

Michal Hocko [John Hubbard, Michael Kerrisk, Jann Horn]

Document new `MAP_FIXED_NO_REPLACE` flag

4.17+ kernels offer a new `MAP_FIXED_NO_REPLACE` flag which allows the caller to atomically probe for a given address range.

readv.2

io_submit.2

Jürg Billeter

Document `RWF_APPEND` added in Linux 4.16

capabilities.7

Michael Kerrisk

Describe file capability versioning

Michael Kerrisk [Serge E. Hallyn]

Document namespaced-file capabilities

[There's still more work to be done on this new text]

Changes to individual pages

bpf.2

Michael Kerrisk

Update list of architectures that support JITed eBPF

And note kernel version numbers where support is added.

Michael Kerrisk

Kernel 4.15 added `CONFIG_BPF_JIT_ALWAYS_ON`

This causes the JIT compiler to be always on and forces `bpf_jit_enable` to 1.

`execve.2`

Michael Kerrisk

Note that describing `execve` as "executing a new process" is misleading

This misdescription is so common that it's worth calling it out explicitly.

Michael Kerrisk

More explicitly describe effect of `execve()` in the opening paragraph

`fallocate.2`

Michael Kerrisk

Since Linux 4.16, Btrfs supports `FALLOC_FL_ZERO_RANGE`

`getrlimit.2`

Michael Kerrisk

`CAP_SYS_RESOURCE` capability is required in *initial user namespace*

`io_submit.2`

Michael Kerrisk

Add kernel version numbers for various 'aio_rw_flags' flags

Michael Kerrisk

Place 'aio_rw_flags' in alphabetical order

`mmap.2`

Jann Horn

`MAP_FIXED` is okay if the address range has been reserved

Clarify that `MAP_FIXED` is appropriate if the specified address range has been reserved using an existing mapping,

but shouldn't

be used otherwise.

Michael Kerrisk

Move the text on `MAP_FIXED` to NOTES

This text has become rather long, making it somewhat unwieldy in the discussion of the `mmap()` flags. Therefore, move it to NOTES, with a pointer in DESCRIPTION referring the reader to NOTES.

Michael Kerrisk [Heinrich Schuchardt]

Clarify that when `addr==NULL`, address chosen by kernel is page-aligned

Michael Kerrisk

Add a little historical detail on the obsolete `MAP_DENYWRITE`

`mount.2`

Michael Kerrisk

ERRORS: add `EBUSY` for the case of trying to stack same mount twice

Michael Kerrisk

Remove a couple of obsolete EBUSY errors

As far as I can tell, these EBUSY errors disappeared with the addition of stackable mounts in Linux 2.4.

msgget.2

semget.2

shmget.2

Michael Kerrisk

The purpose of "flags" == 0 is to obtain ID of an existing IPC object

This was implied in these pages, but the meaning of "flags" == 0 could be more explicit, as indicated by questions such as <https://stackoverflow.com/questions/49833569/flag-value-of-semget-function>

open.2

Jann Horn

Document more -ETXTBSY conditions

Jakub Wilk

Add missing argument for snprintf() in example code

perf_event_open.2

Song Liu

Add type kprobe and uprobe

Two new types kprobe and uprobe are being added to perf_event_open(), which allow creating kprobe or uprobe with perf_event_open. This patch adds information about these types.

ptrace.2

Jann Horn

Copy retval info for SECCOMP_GET_FILTER to right section

The "RETURN VALUE" section made a claim that was incorrect for PTRACE_SECCOMP_GET_FILTER. Explicitly describe the behavior of PTRACE_SECCOMP_GET_FILTER in the "RETURN VALUE" section (as usual), but leave the

now duplicate description in the section

describing PTRACE_SECCOMP_GET_FILTER, since the PTRACE_SECCOMP_GET_FILTER section would otherwise probably become harder to understand.

readv.2

Michael Kerrisk

Remove redundant sentence

seccomp.2

Michael Kerrisk

Note that execve() may change syscall numbers during life of process

On a multiarch/multi-ABI platform such as modern x86, each

architecture/ABI (x86-64, x32, i386) has its own syscall numbers, which means a seccomp() filter may see different syscall numbers over the life of the process if that process uses execve() to execute programs that has a different architectures/ABIs.

Michael Kerrisk

Note which architectures support seccomp BPF

Michael Kerrisk

In EXAMPLE, clearly note that x32 syscalls are \geq X32_SYSCALL_BIT

shutdown.2

Carsten Grohmann

SEE ALSO: add close(2)

syscall.2

Adam

Borowski

Add riscv

wait.2

Michael Kerrisk [Robin Kuzmin]

wait() and waitpid() block the calling thread (not process)

wait4.2

Michael Kerrisk [Martin Mares]

Soften the warning against the use of wait3()/wait4()

These functions are nonstandard, but there is no replacement.

See https://bugzilla.kernel.org/show_bug.cgi?id=199215

crypt.3

encrypt.3

Carlos O'Donell [Michael Kerrisk]

Add notes about _XOPEN_CRYPT

The distribution may choose not to support _XOPEN_CRYPT in the case that the distribution has transitioned from glibc crypt to libxcrypt.

fseek.3

Michael Kerrisk [Andy Owen]

ERRORS: EBADF should be ESPIPE

Michael Kerrisk

Improve EPIPE error text

getcwd.3

Carlos O'Donell

Mention that "(unreachable)" is no longer returned for glibc \geq 2.27.

makedev.3

Michael Kerrisk

Since glibc 2.28, <sys/types.h> no longer defines these macros

pthread_create.3

Frederic Brault

Note default thread stack size for several architectures

tsearch.3

Jann Horn

Clarify items vs nodes

The manpage claimed that tsearch() returns a pointer to a data item. This is incorrect; tsearch() returns a pointer to the corresponding tree node, which can also be interpreted as a pointer to a pointer to the data item.

Since this API is quite unintuitive, also add a clarifying sentence.

Jann Horn

tdelete() can return dangling pointers

POSIX says that deleting the root node must cause tdelete() to return some unspecified non-NULL pointer. Glibc implements it by returning a dangling pointer to the (freed) root node.

Therefore, explicitly note that tdelete() may return bad pointers that must not be accessed.

elf.5

Michael Kerrisk

SEE ALSO: add patchelf(1)

filesystems.5

Michael Kerrisk

Add an entry for tmpfs(5)

group.5

Michael Kerrisk

SEE ALSO: add vigr(8)

passwd.5

Michael Kerrisk

SEE ALSO: add vipw(8)

sysfs.5

Michael Kerrisk

Add brief note on /sys/fs/smackfs

tmpfs.5

Mike Frysinger

Document current mount options

Some of this content is moved from the mount(8) man page.

Style was based on proc(5) sections.

Michael Kerrisk

Remove reference to mount(8) for discussion of mount options

The mount options are now described in this page.

Michael Kerrisk

SEE ALSO: add Documentation/vm/transhuge.txt

Michael Kerrisk

Reformat 'huge' and 'mpol' mount option values as lists

Michael Kerrisk

Describe 'mpol' mount options

Based on text from Documentation/filesystems/tmpfs.txt.

Michael Kerrisk

Document 'huge' mount options

Based on text from Documentation/vm/transhuge.txt.

Michael Kerrisk

SEE ALSO: add set_mempolicy(2)

Michael Kerrisk

Document mpol=local mount option

capabilities.7

Michael Kerrisk

Remove redundant mention of PTRACE_SECCOMP_GET_FILTER

cgroups.7

Michael Kerrisk

cgroup.events transitions generate POLLERR as well as POLLPRI

mount_namespaces.7

Michael Kerrisk

Note another case where shared "peer groups" are formed

namespaces.7

Michael Kerrisk [Konstantin Khlebnikov]

Mention that device ID should also be checked when comparing NS symlinks

When comparing two namespaces symlinks to see if they refer to the same namespace, both the inode number and the device ID should be compared. This point was already made clear in ioctl_ns(2), but was missing from this page.

Michael Kerrisk

Note an idiosyncrasy of /proc/[pid]/ns/pid_for_children

/proc/[pid]/ns/pid_for_children has a value only after first child is

created in PID namespace. Verified by experiment.

network_namespaces.7

Michael Kerrisk

Network namespaces isolate the UNIX domain abstract socket namespace

Michael Kerrisk

Add cross reference to `unix(7)`

For further information on UNIX domain abstract sockets.

`posixoptions.7`

Carlos O'Donell

Expand XSI Options groups

We define in detail the X/Open System Interfaces i.e. `_XOPEN_UNIX` and all of the X/Open System Interfaces (XSI) Options Groups.

The XSI options groups include encryption, realtime, advanced realtime, realtime threads, advanced realtime threads, tracing, streams, and legacy interfaces.

Michael Kerrisk

Use a more consistent, less cluttered layout for option lists

Michael Kerrisk

Make function lists more consistent and less cluttered

Use more consistent layout for lists of functions, and remove punctuation from the lists

to make them less cluttered.

`socket.7`

Michael Kerrisk [Tomi Salminen]

Fix error in `SO_INCOMING_CPU` code snippet

The last argument is passed by value, not reference.

`time.7`

Michael Kerrisk [Enrique Garcia]

Mention `clock_gettime()/clock_settime()` rather than `[gs]gettimeofday()` `gettimeofday()` is declared obsolete by POSIX. Mention instead the modern APIs for working with the realtime clock.

See https://bugzilla.kernel.org/show_bug.cgi?id=199049

`unix.7`

Michael Kerrisk [Rusty Russell]

ERRORS: add `EBADF` for sending closed file descriptor with `SCM_RIGHTS`

`vdso.7`

Michael Kerrisk

VDSO symbols (system calls) are not visible to `seccomp(2)` filters

`xattr.7`

Michael Kerrisk

SEE ALSO: add `selinux(8)`

`ld.so.8`

Mike Frysinger

Make lack of separator escaping explicit
Make it clear that the delimiters in LD_PRELOAD, LD_LIBRARY_PATH,
and LD_AUDIT cannot be escaped
so people don't try various methods
(such as \;) to workaround it.
Michael Kerrisk
Remove unneeded mention of PATH in discussion of LD_LIBRARY_PATH
This brief sentence doesn't add value to the text.

===== Changes in man-pages-5.00 =====

Released: 2019-03-06, Munich

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The following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages

s390_guarded_storage.2

Eugene Syromyatnikov

New page documenting s390_guarded_storage(2) s390-specific system call

address_families.7

Michael Kerrisk [Eugene Syromyatnikov]

New page that contains details of socket address families

There is too much detail in socket(2). Move most of it into
a new page instead.

bpf-helpers.7

Michael

Kerrisk [Daniel Borkmann, Quentin Monnet]

Add new man page for eBPF helper functions
(autogenerated from kernel source files)

Removed Pages

mdoc.7

mdoc.samples.7

Michael Kerrisk [Ingo Schwarze]

Remove mdoc(7) and mdoc.samples(7)

groff_mdoc(7) from the groff project provides a better
equivalent of mdoc.samples(7) and the 'mandoc' project
provides a better mdoc(7). And nowadays, there are virtually

no pages in "man-pages" that use mdoc markup.

Newly documented interfaces in existing pages

fanotify_init.2

fanotify.7

nixiaoming [Amir Goldstein, Michael Kerrisk]

Document FAN_REPORT_TID

fanotify_init.2: add new flag FAN_REPORT_TID

fanotify.7: update description of member pid in
struct fanotify_event_metadata

Amir Goldstein

Document FAN_MARK_FILESYSTEM

Monitor fanotify

events on the entire filesystem.

Matthew Bobrowski [Amir Goldstein]

Document FAN_OPEN_EXEC and FAN_OPEN_EXEC_PERM

io_submit.2

Adam Manzanares

Document IOCB_FLAG_IOPRIO

msgctl.2

semctl.2

shmctl.2

Davidlohr Bueso [Joe Lawrence, Michael Kerrisk]

Document STAT_ANY commands

prctl.2

Konrad Rzeszutek Wilk [Michael Kerrisk]

Document PR_SET_SPECULATION_CTRL and PR_GET_SPECULATION_CTRL

sched_setattr.2

Claudio Scordino [Michael Kerrisk]

Document SCHED_FLAG_DL_OVERRUN and SCHED_FLAG_RECLAIM

socket.2

Tobias Klauser

Document AF_XDP

Document AF_XDP added in Linux 4.18.

inotify.7

Henry Wilson

Document IN_MASK_CREATE

unix.7

Michael Kerrisk
Document SO_PASSESEC
Michael Kerrisk
Document SCM_SECURITY ancillary data

New and changed links

reallocarray.3

Michael Kerrisk
New link to malloc(3)

precedence.7

Josh Triplett
Add as a redirect
to operator.7

Global changes

Various pages

Michael Kerrisk [G. Branden Robinson]
Use '\e' rather than '\\\ to get a backslash

Various pages

Michael Kerrisk [Bjarni Ingi Gislason, G. Branden Robinson]
Use zerowidth space in appropriate locations

Various pages

Michael Kerrisk
Clarify the distinction between "file descriptor" and "file description"

Various pages

Mike Rapoport
Update paths for in-kernel memory management documentation files

A few pages

Michael Kerrisk
Change references to '2.6.0-test*' series kernels to just '2.6.0'

Changes to individual pages

iconv.1

Marko Myllynen

SEE ALSO: add uconv(1)

localedef.1

Howard Johnson

Note that -f and -c, are reversed from what you might expect

time.1

Michael Kerrisk [Johannes Altmanninger]

Document the -q/--quiet option

Jakub Wilk

Update bug reporting address

bpf.2

Tobias

Klauser

Update JIT support list for Linux 4.18

JIT support for x86-32 was during the Linux 4.18 release cycle.

Also correct the entry for MIPS (only MIPS64 is supported).

Oded Elisha

Fix bug in example

Quentin Monnet

SEE ALSO: add bpf-helpers(7)

capget.2

Michael Kerrisk

Remove crufty sentence suggesting use of deprecated functions

Remove crufty sentence suggesting use of deprecated capsetp(3) and capgetp(3); the manual page for those functions has long (at least as far back as 2007) noted that they are deprecated.

Michael Kerrisk

Remove first paragraph, which repeats details from capabilities(7)

chroot.2

Michael Kerrisk

Mention /proc/[pid]/root

clock_getres.2

Michael Kerrisk [Jens Thoms Toerring]

CLOCK_MONOTONIC_RAW does not count while the system is suspended

Michael Kerrisk [Jens Thoms Toerring]

On Linux CLOCK_MONOTONIC counts

time that the system has run since boot

Michael Kerrisk [Jens Thoms Toerring]

CLOCK_MONOTONIC does not count while the system is suspended

Michael Kerrisk

ERRORS: add EINVAL error for noncanonical clock_settime() value

clone.2

Michael Kerrisk

Rework discussion of threads and signals

The discussion is phrased in terms of signals sent using `kill(2)`,
but applies equally to a signal sent by the kernel.

Jann Horn

Pending `CLONE_NEWPID` prevents thread creation

Michael Kerrisk

Clarify the discussion of threads and signals

And explicitly introduce the terms "process-directed" and
"thread-directed" signals.

Eugene Syromyatnikov

Add information about `clone` and `clone2` on IA-64

Michael Kerrisk

ERRORS: `EINVAL` occurs with `CLONE_NEWUSER` if `!CONFIG_USER_NS`

connect.2

Benjamin Peterson

Document error semantics of nonblocking UNIX domain sockets

epoll_ctl.2

Michael Kerrisk

Use the term "interest list" consistently

epoll_wait.2

Michael Kerrisk

Clarify the behavior when `epoll_wait()`-ing on an empty interest list

Michael Kerrisk

Note that `epoll_wait()` round robins through the set of ready descriptors

eventfd.2

Michael Kerrisk

Move text noting that `eventfd()` creates a FD earlier in the page

fcntl.2

Michael Kerrisk

Actual pipe capacity may in practice be less than nominal capacity

The number of bytes that can be written to the pipe may be less
(sometimes substantially less) than the nominal capacity.

Eugene Syromyatnikov

Mention that `l_sysid` is not used even if present

Michael Kerrisk

Briefly explain the meaning of the '`l_sysid`' field in '`struct flock`'

futex.2

Benjamin Peterson

Make the example use C11 atomics rather than GCC builtins

getcpu.2

Tobias Klauser [Michael Kerrisk]
getcpu() now has a glibc wrapper;
remove mention of syscall(2)

The glibc wrapper was added in glibc 2.29, release on 1 Feb 2019.

getgid.2
getpid.2
getuid.2
pipe.2
syscall.2

Eugene Syromiatnikov [Michael Kerrisk]

Describe 2nd return value peculiarity

Some architectures (ab)use second return value register for
additional return value in some system calls. Let's describe this.

getgroups.2

Michael Kerrisk

Note that a process can drop all groups with: setgroups(0, NULL)

getrlimit.2

Eugene Syromyatnikov

Note that setrlimit(RLIMIT_CPU) doesn't fail

Michael Kerrisk

Resource limits are process-wide attributes shared by all threads

This was already noted in pthreads(7), but bears repeating here.

Eugene Syromyatnikov

Correct information about large limits on 32-bit architectures

gettid.2

Michael Kerrisk

Glibc provides a wrapper since version 2.30

gettimeofday.2

Michael Kerrisk

ERRORS: add EINVAL

for noncanonical 'tv' argument to gettimeofday()

gettimeofday.2

clock_getres.2

Michael Kerrisk [Jens Thoms Toerring]

ERRORS: EINVAL can occur if new real time is less than monotonic clock

getxattr.2

removexattr.2

setxattr.2

Michael Kerrisk [Andreas Gruenbacher, Enrico Scholz]

ERRORS: replace ENOATTR with ENODATA

See also https://bugzilla.kernel.org/show_bug.cgi?id=201995

inotify_add_watch.2

Paul Millar

Add IN_ONLYDIR based error

Henry Wilson

Note errors that can occur for IN_MASK_CREATE

io_submit.2

Jeff Moyer

Fix the description of aio_data

aio_data is not a kernel-internal field.

madvise.2

Michal Hocko [Niklas Hambüchen]

MADV_FREE clarify swapless behavior

memfd_create.2

Marc-André Lureau

Update hugetlb file-sealing support

Lucas De Marchi

Fix header for memfd_create()

Joseph C. Sible

_GNU_SOURCE is required

mmap.2

Elliott Hughes

Explicitly state that the fd can be closed

Jann Horn [Michal Hocko, William Kucharski]

Fix description of treatment of the hint

The current manpage reads as if the kernel will always pick a free space close to the requested address, but that's not the case.

mount.2

Michael Kerrisk

Clearly distinguish per-mount-point vs per-superblock mount flags

Michael Kerrisk

MS_SILENT is ignored when changing propagation type

Michael Kerrisk

Attempts to change MS_SILENT setting during remount are silently ignored

Michael Kerrisk [Harry Mallon]

Document EROFS for read-only filesystems

See https://bugzilla.kernel.org/show_bug.cgi?id=200649

Michael Kerrisk

Clarify that per-superblock flags are shared during remount

Michael Kerrisk

Remove crufty sentence about MS_BIND + MS_REMOUNT

Michael Kerrisk

Mention /proc/PID/mountinfo

Many people are unaware of the /proc/PID/mountinfo file. Provide

a helpful clue here.

Michael Kerrisk

Mandatory locking also now requires CONFIG_MANDATORY_FILE_LOCKING

Michael Kerrisk [Simone Piccardi]

Add MS_STRICTATIME to list of flags that can be used in remount

Michael Kerrisk

EACCESS: note some reasons why a filesystem may be read-only

Michael Kerrisk

SEE ALSO: add ioctl_iflags(2)

msgop.2

Michael Kerrisk

Correct the capability description for msgsnd() EACCESS error

nfsservctl.2

Michael Kerrisk

Add VERSIONS section noting that this system call no longer exists

open.2

Lucas Werkmeister

Document ENXIO for sockets

Michael Kerrisk

Clarify a special use case of O_NONBLOCK for devices

Eugene Syromiatnikov

Mention presence of unused O_RSYNC definition

O_RSYNC is defined in <asm/fcntl.h> on HP PA-RISC, but is not used anyway.

Eugene Syromiatnikov

Document FASYNC usage

in Linux UAPI headers

Andrew Price

Remove O_DIRECT-related quotation

Remove a section that adds no benefit to the discussion of O_DIRECT.

Michael Kerrisk [Robin Kuzmin]

Clarify that O_NONBLOCK has no effect on poll/epoll/select

perf_event_open.2

Vince Weaver [Wang Nan]

Document the PERF_EVENT_IOC_PAUSE_OUTPUT ioctl

The PERF_EVENT_IOC_PAUSE_OUTPUT ioctl was introduced in Linux 4.7.

Vince Weaver

Fix wording in multiplexing description

Vince Weaver

Clarify exclude_idle

Vince Weaver

Document the PERF_EVENT_IOC_QUERY_BPF ioctl

Vince Weaver

Document the PERF_EVENT_IOC_MODIFY_ATTRIBUTES ioctl

Vince Weaver

Fix prctl behavior description

pivot_root.2

Elvira Khabirova

Explain the initramfs case and point to switch_root(8)

Joseph Sible [Joseph C. Sible]

Document EINVAL if root is rootfs

pkey_alloc.2

Michael Kerrisk [Szabolcs Nagy]

Switch

to glibc prototype in SYNOPSIS

poll.2

Michael Kerrisk

Note that poll() and ppoll() are not affected by O_NONBLOCK

posix_fadvise.2

Eugene Syromyatnikov

Describe the difference between fadvise64/fadvise64_64

prctl.2

Benjamin Peterson

PR_SET_MM_EXE_FILE may now be used as many times as desired

Michael Kerrisk

Add some further historical details on PR_SET_MM_EXE_FILE

Michael Kerrisk [Jann Horn]

Explain the circumstances in which the parent-death signal is sent

Michael Kerrisk

Rework the PR_SET_PDEATHSIG description a little, for easier readability

Michael Kerrisk

Add additional info on PR_SET_PDEATHSIG

The signal is process directed and the siginfo_t->si_pid

field contains the PID of the terminating parent.

Michael Kerrisk

Note libcap(3) APIs for operating on ambient capability set

(However, the libcap APIs do not yet seem to have

manual pages...)

Michael Kerrisk

Mention libcap APIs for operating on capability bounding set

ptrace.2

Dmitry V. Levin

Do not say that PTRACE_O_TRACESYSGOOD may not work

Jann Horn

BUGS: ptrace() may set errno to zero

readdir.2

Eugene Syromyatnikov

Fix struct old_linux_dirent in accordance with current definition

readv.2

Xiao Yang [Florian Weimer]

Fix wrong errno for an unknown flag

rename.2

Michael Kerrisk

glibc 2.28 adds library support for renameat2()

Tobias Klauser

Add feature test macro for renameat2()

The glibc wrapper for renameat2() was added in glibc 2.28 and requires `_GNU_SOURCE`.

Eugene Syromyatnikov

Some additional notes regarding `RENAME_WHITEOUT`

Lucas Werkmeister [Michael Kerrisk]

Add kernel versions for `RENAME_NOREPLACE` support

Michael Kerrisk

Rework list of supported filesystems for `RENAME_NOREPLACE`

Tobias Klauser

renameat2()

now has a glibc wrapper; remove mention of `syscall(2)`

s390_runtime_instr.2

Eugene Syromyatnikov

Add a note about `runtime_instr.h` availability

s390_sthyi.2

Eugene Syromyatnikov [Heiko Carstens]

Some minor additions

sched_setattr.2

Michael Kerrisk

Add a bit more detail for `SCHED_DEADLINE`

sched_setparam.2

Michael Kerrisk

Clarify that scheduling parameters are per-thread (not per-process)

seccomp.2

Michael Kerrisk

(Briefly) document `SECCOMP_FILTER_FLAG_SPEC_ALLOW`

Michael Kerrisk

SEE ALSO: add bpfc(1)

select.2

Michael Kerrisk

BUGS: the use of value-result arguments is a design bug

Michael Kerrisk [Robin Kuzmin]

Note that select() and pselect() are not affected by O_NONBLOCK

select_tut.2

Michael Kerrisk [Antonio Chirizzi]

Diagnose inet_aton() errors with simple fprintf() (not perror())

setgid.2

Michael Kerrisk

Clarify EPERM capability requirements with respect
to user namespaces

setns.2

Michael Kerrisk

When joining a user namespace, it must be a descendant user namespace

Michael Kerrisk

Note capability requirements for changing PID namespace

Note capability requirements for changing network, IPC, or UTS namespace

Note capability requirements for changing cgroup namespace

Michael Kerrisk

Some text restructuring and reordering

set_thread_area.2

Eugene Syromyatnikov

Mention related prctl() requests in SEE ALSO

Eugene Syromyatnikov

Mention that get_thread_area() is also Linux-specific

Eugene Syromyatnikov

Describe set_thread_area()/get_thread_area() on m68k/MIPS

setuid.2

Michael Kerrisk

Clarify EPERM capability requirements with respect to user namespaces

sigaction.2

Eugene Syromyatnikov [Michael Kerrisk]

Describe obsolete usage of struct sigcontext as signal handler argument

sigsuspend.2

Michael Kerrisk

Clarify that

sigsuspend() suspends the calling *thread*

socket.2

Michael Kerrisk

Remove references to external docs

This information is all in the new address_families(7)

Michael Kerrisk

Add cross reference to address_families(7)

Eugene Syromyatnikov

Reinstate AF_VSOCK mention

Michael Kerrisk

Simplify list of address families

Remove many of the details that are in address_families(7)

Nikola Forró

Remove notes concerning AF_ALG and AF_XDP

All address families are now documented in address_families.7.

Michael Kerrisk

Remove some more obscure protocols from address family list

The list of address families in this page is still
overwhelmingly long. So let's shorten it.

The removed entries are all in address_families(7).

Michael Kerrisk

Remove a few obsolete protocols

Documentation for these remains in address_families(7)

socketpair.2

Eugene Syromyatnikov

Note that AF_TIPC also supports socketpair(2)

Introduced by Linux commit v4.12-rc1~64^3~304^2~1.

stat.2

Michael Kerrisk [Alessandro Vesely]

ERRORS: ENOENT can occur where a path component is a dangling symlink

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=909789>

Benjamin Peterson

SEE ALSO: add statx(2)

statx.2

Tobias Klauser [Michael Kerrisk]

statx() now has a glibc wrapper; remove mention of syscall(2)

syscall.2

Eugene Syromyatnikov [Michael Kerrisk]

Elaborate x32 ABI specifics

snyh

Fix wrong retval register number in alpha architecture

Helge Deller

parisc needs care with syscall parameters

Michael Kerrisk

Rework table to render within 80 columns

syscalls.2

Eugene Syromyatnikov

Change example of a thin syscall wrapper to chdir()

As truncate(3) should dispatch between truncate/truncate64,
as noted

later in the page.

Eugene Syromyatnikov [Michael Kerrisk]

Update syscall table

Added: arc_gettls, arc_settls, arc_usr_cmpxchg, arch_prctl,
atomic_barrier, atomic_cmpxchg_32, bfin_spinlock, breakpoint,
clone2, cmpxchg, cmpxchg_badaddr, dma_memcpy, execv, get_tls,
getdomainname, getdtablesize, gethostname, getxgid, getxpid,
getxuid, metag_get_tls, metag_set_fpu_flags, metag_set_tls,
metag_set_global_bit, newfstatat, old_adjtimex, oldumount,
or1k_atomic, pread, pwrite, riscv_flush_icache,
sched_get_affinity, sched_set_affinity, set_tls, setaltroot,
sethae, setprgrp, spill, sram_alloc, sram_free, swapcontext,
switch_endian, sys_debug_setcontext, syscall, sysmips, timerfd,
usr26, usr32, xtensa.

Uncommented: memory_ordering

Renamed: ppc_rtas to rtas (__NR_rtas), ppc_swapcontext to
swapcontext (__NR_swapcontext).

Eugene Syromyatnikov

Note about s390x and old_mmap

Michael Kerrisk

Add s390_guarded_storage(2)

Michael Kerrisk

Update syscall list for Linux 4.18

Eugene Syromyatnikov

Note that not all architectures return errno negated

Helge Deller

parisc Linux does not any longer emulate HP-UX

Michael Kerrisk

Comment out details of a few system calls that only ever briefly existed

unshare.2

Michael Kerrisk [Shawn Landden]

Same EINVAL errors as for clone(2) can also occur with unshare(2)

Tycho Andersen

Note EINVAL when unsharing pid ns twice

The kernel doesn't allow unsharing a pid NS if it has
previously been unshared.

ustat.2

Michael Kerrisk

Starting with version 2.28, glibc no longer provides a wrapper function

vmsplice.2

Andrei Vagin

Note that vmsplice can splice pages from pipe to memory

wait.2

Michael Kerrisk

Add some cross references

to core(5)

write.2

Michael Kerrisk [Nadav Har'El]

RETURN VALUE: clarify details of partial write and

https://bugzilla.kernel.org/show_bug.cgi?id=197961

Goldwyn Rodrigues

Add details on partial direct I/O writes

alloca.3

Michael Kerrisk [Robin Kuzmin]

Prevent any misunderstanding about when allocated memory is released

bsd_signal.3

Xiao Yang

Fix the wrong version of _POSIX_C_SOURCE

bstring.3

Michael Kerrisk [Emil Fihlman]

Correct argument list for memmem() prototype

cmsg.3

Michael Kerrisk

Explain zero-initialization requirement for CMSG_NXTHDR()

Michael Kerrisk

Remove out of place mention of MSG_CTRUNC

This detail is covered in recvmsg(2), and now also in unix(7).

Michael Kerrisk

Note that CMSG_FIRSTHDR can return NULL

Michael Kerrisk

Remove unnecessary 'fdptr' intermediate variable in example code

des_crypt.3

encrypt.3

Michael Kerrisk

The functions described in these pages are removed in glibc 2.28

dlsym.3

Michael Kerrisk

Describe a case where a symbol value may be NULL

errno.3

Michael Kerrisk [Robert P. J. Day]

Mention that errno(1) is part of the 'moreutils' package

exec.3

Michael Kerrisk [Eugene Syromyatnikov]

Note that SPARC provides an execv() system call

exit.3

Mike Frysinger

Note wider sysexits.h availability

error.3

Elliot Hughes

Warn about closing the result of fileno()

fnmatch.3

Elliott Hughes

Clarify "shell wildcard pattern"

getaddrinfo.3

Michael Kerrisk [Eric Sanchis]

Fix off-by-one error in example client program

getcwd.3

Michael Kerrisk

Rework text on use of getcwd() system call

Make it clear that all of the library functions described on this page will use the getcwd() system call if it is present.

Michael Kerrisk

Add details on the getcwd() syscall and how it

used by libc functions

Michael Kerrisk

Reorder the text describing "(unreachable)" being returned by getcwd()

getmntent.3

Elliot Hughes

Clarify that endmntent() should be used rather than fclose()

isatty.3

Michael Kerrisk [Jakub Wilk]

Most non-tty files nowadays result in the error ENOTTY

Historically, at least FIFOs and pipes yielded the error EINVAL.

lockf.3

Ian Turner

ERRORS: add EINTR

malloc.3

Michael Kerrisk

Add reference to glibc MallocInternals wiki

Michael Kerrisk

Note that calloc() detects overflow when multiplying its arguments

Michael Kerrisk

Since glibc 2.29, reallocarray() is exposed by defining _DEFAULT_SOURCE

Info gleaned from glibc NEWS file.

pthread_attr_init.3

Michael Kerrisk [Göran Höggsjö, Jakub Wilk]

Use correct printf() specifier for "size_t" in example program

pthread_rwlockattr_setkind_np.3

Carlos O'Donell

Remove bug notes

pthread_setname_np.3

Jakub Wilk

Explain _np suffix

Add text to CONFORMING TO explaining that the "_np" suffix is because these functions are non-portable.

putenv.3

Michael Kerrisk

Note a glibc extension: putenv("NAME") removes an environment variable

resolver.3

Michael Becker

Add documentation of res_nclose()

strcmp.3

Heinrich Schuchardt

Clarify that strcmp() is not locale aware

strcpy.3

Matthew Kilgore

Fix example code for strncpy, which could pass an incorrect length

Michael Kerrisk [Frank Theile]

Use "destination" consistently (instead of "target" sometimes)

strfry.3

Keith Thompson

Remove incorrect reference to rand(3)

string.3

strlen.3

strnlen.3

Michael Kerrisk [Jakub Wilk]

Use 'bytes' not 'characters'

This is in line with POSIX terminology.

system.3

Michael Kerrisk [Jonny Grant]

Use '(char *) NULL' rather than '(char *) 0'

Michael

Kerrisk

Note that system() can fail for the same reasons as fork(2)

Arkadiusz Drabczyk

Mention that 'errno' is set on error

termios.3

Eugene Syromyatnikov

Note an XTABS alpha issue

trunc.3

Michael Kerrisk [Eric Benton, G. Branden Robinson]

Make the description a little clearer

Michael Kerrisk

Emphasize that the return value is a floating-point number

xcrypt.3

Jason A. Donenfeld

Warn folks not to use these functions

lirc.4

Sean Young

Fix broken link

Sean Young

Document error returns more explicitly

Sean Young

lirc.h include file is in /usr/include/linux/lirc.h

Sean Young [Alec Leamas, Mauro Carvalho Chehab]

Remove ioctl and feature bits which were never implemented

Sean Young

Unsupported ioctl() operations always return ENOTTY

Sean Young

LIRC_MODE_LIRCCODE has been replaced by LIRC_MODE_SCANCODE

Sean Young

Document remaining

ioctl (LIRC_GET_REC_TIMEOUT)

Now all ioctls are documented.

Sean Young

Timeout reports are enabled by default

Sean Young

Some devices are send only

Sean Young

Update SEE ALSO

Sean Young

LIRC_CAN_SET_REC_DUTY_CYCLE_RANGE was never supported

No driver ever supported such a thing.

Michael Kerrisk

Clarify the description LIRC_SET_REC_TIMEOUT

tty.4

Michael Witten

Add ``vcs(4)`` and ``pty(7)`` to the ``SEE ALSO`` section

vcs.4

Mattias Engdegård [Michael Witten]

Fix broken example code

core.5

Michael Kerrisk

Add cross reference to `vdso(7)` where "virtual DSO" is mentioned

filesystems.5

Eugene Syromyatnikov

Mention `sysfs(2)`

host.conf.5

Nikola Forró

Clarify `glibc` versions in which `spoof` options were removed

proc.5

Michael Kerrisk [Philip Dumont]

Document `/proc/[tid]`

See also https://bugzilla.kernel.org/show_bug.cgi?id=201441

Michael Kerrisk

Add an overview section describing the groups of files under `/proc`

Keno Fischer [Robert O'Callahan]

Correct description of `NStgid`

Lucas Werkmeister

Document `fdinfo` format for `timerfd`

Stephan Knauss

Mention `/proc/uptime` includes time spent in suspend

Michael Kerrisk

Reword `/proc/PID/fdinfo timerfd` field descriptions as a hanging list

Michael Kerrisk

SEE ALSO: add `htop(1)` and `pstree(1)`

`fs/proc/uptime.c:uptime_proc_show()` fetches time using

ktime_get_boottime which includes the time spent in suspend.

Michael Kerrisk

Document /proc/PID/status CoreDumping field

Michael Kerrisk

Mention choom(1) in discussion of /proc/[pid]/oom_score_adj

Michael Kerrisk

Add a few details on /proc/PID/fdinfo timerfd

Michael Kerrisk

Document /proc/meminfo KReclaimable field

Michael Kerrisk

Explain how to determine top-most mount in /proc/PID/mountinfo

Explain how to determine the top-most mount at a particular location by inspecting /proc/PID/mountinfo.

Michael Kerrisk [Jakub Wilk]

Remove bogus suggestion to use cat(1) to read files containing '\0'

Michael Kerrisk

Refer to mount(2) for explanation of mount vs superblock options

Michael Kerrisk

Fix description of /proc/PID/* ownership to account for user namespaces

Elvira Khabirova

Describe ambiguities in /proc/<pid>/maps

Michael Kerrisk [Nick Gregory]

Since Linux 4.5, "stack:" is no longer shown in /proc/PID/maps

Nikola Forró

Document /proc/[pid]/status Speculation_Store_Bypass field

Alan Jenkins

Vmalloc information is no longer calculated (Linux 4.4)

Michael Kerrisk [Alexander E. Patrakov, Jakub Wilk, Michael Kerrisk]

Use 'tr '\000' '\n' to display contents of /proc/PID/environ

Michael Kerrisk

Setting dumpable to 1 reverts ownership of /proc/PID/* to effective IDs

Michael Kerrisk

Document /proc/meminfo LazyFree field

Michael Kerrisk

Fix kernel source pathname for soft-dirty documentation

Michael Kerrisk

/proc/[pid]/status VmPMD field was removed in Linux 4.15

resolv.conf.5

Nikola Forró

Document no-reload (RES_NPRELOAD) option

tzfile.5

Paul Eggert

Sync from tzdb upstream

capabilities.7

Michael Kerrisk

Fix some imprecisions in discussion of namespaced file capabilities

The file UID does not come into play when creating a v3 security.capability extended attribute.

Michael Kerrisk

Note that v3 security.attributes are transparently created/retrieved

Michael Kerrisk

Improve the discussion of when file capabilities are ignored

The text stated that the `execve()` capability transitions are not performed for the same reasons that `setuid` and `setgid` mode bits may be ignored (as

described in `execve(2)`). But, that's not quite

correct: rather, the file capability sets are treated as empty for the purpose of the capability transition calculations.

Michael Kerrisk

Rework bounding set as per-thread set in transformation rules

Michael Kerrisk

Substantially rework "Capabilities and execution of programs by root"

Rework for improved clarity, and also to include missing details on the case where (1) the binary that is being executed has capabilities attached and (2) the real user ID of the process is not 0 (root) and (3) the effective user ID of the process is 0 (root).

Marcus Gelderie

Add details about `SECBIT_KEEP_CAPS`

The description of `SECBIT_KEEP_CAPS` is misleading about the effects on the effective capabilities of a process during a switch to nonzero UIDs. The effective set is cleared based on the

effective UID switching to a nonzero value, even if

`SECBIT_KEEP_CAPS` is set. However, with this bit set, the effective and permitted sets are not cleared if the real and saved set-user-ID are set to nonzero values.

Marcus Gelderie

Mention header for `SECBIT` constants

Mention that the named constants (`SECBIT_KEEP_CAPS` and others) are available only if the `linux/securebits.h` user-space header is included.

Michael Kerrisk

Add text introducing bounding set along with other capability sets

Michael Kerrisk [Allison Randal]

Update URL for location of POSIX.1e draft standard

Michael Kerrisk

`CAP_SYS_CHROOT` allows use of `setns()` to change the mount namespace

Michael Kerrisk [Pierre Chifflier]

Ambient capabilities do not trigger secure-execution mode

Michael Kerrisk

Add a subsection on per-user-namespace "set-user-ID-root" programs

Michael Kerrisk

Rework discussion of exec and UID 0, correcting a couple of details

Clarify the "Capabilities and execution of programs by root" section, and correct a couple of details:

* If a process with rUID == 0 && eUID != 0 does an exec, the process will nevertheless gain effective capabilities if the file effective bit is set.

* Set-UID-root programs only confer a full set of capabilities if the binary does not also have attached capabilities.

Michael Kerrisk

Update URL for libcap tarballs

The previous location does not seem to be getting updated.

(For example, at the time of this commit, libcap-2.26 had been out for two months, but was not present at <http://www.kernel.org/pub/linux/libs/security/linux-privs>.)

Michael Kerrisk

Clarify which capability sets capset(2) and capget(2) apply to capset(2) and capget(2) apply

operate only on the permitted, effective, and inheritable process capability sets.

Michael Kerrisk

Correct the description of SECBIT_KEEP_CAPS

Michael Kerrisk

Add background details on capability transformations during execve(2)

Add background details on ambient and bounding set when discussing capability transformations during execve(2).

Michael Kerrisk

Document the 'no_file_caps' kernel command-line option

cgroup_namespaces.7

Michael Kerrisk [Troy Engel]

Clarify the example by making an implied detail more explicit.

See https://bugzilla.kernel.org/show_bug.cgi?id=201047

cgroups.7

Michael Kerrisk

Add more detail on v2 'cpu' controller and realtime threads

Explicitly note the scheduling policies that are relevant for the v2 'cpu' controller.

Michael Kerrisk

Document the use of 'cgroup_no_v1=named' to disable v1 named hierarchies

This feature was added in Linux 5.0.

Michael Kerrisk [Mike Weilgart]

Complete partial sentence re kernel boot options and 'nsdelegate'

https://bugzilla.kernel.org/show_bug.cgi?id=201029

Michael Kerrisk

Reframe the text on delegation to include more details about cgroups v1

Michael Kerrisk [Leah Hanson]

Rework discussion of writing to cgroup.type file

In particular, it is possible to write "threaded" to a cgroup.type file if the current type is "domain threaded". Previously, the text had implied that this was not possible.

Michael Kerrisk [Balbir Singh, Marcus Gelderie]

Soften the discussion about delegation in cgroups v1

Balbir pointed out that v1 delegation was not an accidental feature.

epoll.7

Michael Kerrisk

Introduce the terms "interest list" and "ready list"

Michael Kerrisk

Consistently use the term "interest list" rather than "epoll set"

Michael Kerrisk

Reformat Q&A list

Michael Kerrisk

Note that edge-triggered notification wakes up only one waiter

Note a useful performance benefit of EPOLLET: ensuring that only one of multiple waiters (in `epoll_wait()`) is woken up when a file descriptor becomes ready.

Michael Kerrisk

Expand the discussion of the implications of file descriptor duplication

In particular, note that it may be difficult for an application to know about the existence of duplicate file descriptors.

feature_test_macros.7

Michael Kerrisk [Andreas Westfeld]

Add more detail on why FTMs must be defined before including any header

inotify.7

Michael Kerrisk [Paul Millar]

Note ENOTDIR error that can occur for IN_ONLYDIR

Note ENOTDIR error that occurs when requesting a watch on a nondirectory with IN_ONLYDIR.

ip.7

Bert Hubert

IP_RECVTTL error fixed

I need to get the TTL of UDP datagrams from userspace, so I set the `IP_RECVTTL` socket option. And as promised by ip.7, I then get `IP_TTL` messages from `recvfrom`. However, unlike what the manpage promises, the TTL field gets passed as a 32 bit integer.

man.7

Michael Kerrisk

SEE ALSO: remove mdoc.samples(7)

mount_namespaces.7

Michael Kerrisk

SEE ALSO: add findmnt(8)

namespaces.7

Michael Kerrisk

List factors that may pin a namespace into existence

Various factors may pin a namespace into existence, even when it has no member processes.

Michael Kerrisk [Tycho Kirchner]

Briefly explain why CAP_SYS_ADMIN is needed to create nonuser namespaces

Michael Kerrisk

Mention ioctl(2) in discussion of namespaces APIs

Michael Kerrisk

SEE ALSO: add pam_namespace(8)

pid_namespaces.7

Michael Kerrisk

Clarify the semantics for the adoption of orphaned

processes

Because of setns() semantics, the parent of a process may reside in the outer PID namespace. If that parent terminates, then the child is adopted by the "init" in the outer PID namespace (rather than the "init" of the PID namespace of the child).

Michael Kerrisk

Note a detail of /proc/PID/ns/pid_for_children behavior

After clone(CLONE_NEWPID), /proc/PID/ns/pid_for_children is empty until the first child is created. Verified by experiment.

Michael Kerrisk

Note that a process can do unshare(CLONE_NEWPID) only once

sched.7

Michael Kerrisk [Eugene Syromyatnikov]

In the kernel source SCHED_OTHER is actually called SCHED_NORMAL

Michael Kerrisk

SEE ALSO: add ps(1) and top(1)

Michael Kerrisk

SEE ALSO: add chcpu(1), lscpu(1)

signal.7

Michael Kerrisk [Robin Kuzmin]

Clarify that sigsuspend() and pause() suspend the calling *thread*

Helge

Deller

Add signal numbers for parisc

Michael Kerrisk

Unify signal lists into a signal table that embeds standards info
Having the signals listed in three different tables reduces readability, and would require more table splits if future standards specify other signals.

Michael Kerrisk

Reorder the architectures in the signal number lists
x86 and ARM are the most common architectures, but currently are in the second subfield in the signal number lists.
Instead, swap that info with subfield 1, so the most common architectures are first in the list.

Michael Kerrisk

Place signal numbers in a separate table
The current tables of signal information are unwieldy, as they try to cram in too much information.

Michael Kerrisk

Insert standards info into tables

Michael Kerrisk

SEE ALSO: add clone(2)

socket.7

Michael Kerrisk

Refer reader to unix(7) for information on SO_PASSSEC

Michael Kerrisk

SEE ALSO: add address_families(7)

socket.7

unix.7

Michael Kerrisk

Move text describing SO_PEERCREC from socket(7) to unix(7)
This is, AFAIK, an option specific to UNIX domain sockets, so place it in unix(7).

tcp.7

udp.7

Michael Kerrisk

Add a reference to socket(7) noting existence of further socket options

unix.7

Michael Kerrisk

Enhance the description of SCM_RIGHTS
The existing description is rather thin. More can be said.

Michael Kerrisk

There is a limit on the size of the file descriptor array for SCM_RIGHTS
The limit is defined in the kernel as SCM_MAX_FD (253).

Michael Kerrisk

Rework SO_PEERCREC text for greater clarity

Michael Kerrisk [Felipe Gasper]

Clarify SO_PASSCRED behavior

Michael Kerrisk

Explicitly note that SO_PASSCRED provides SCM_CREDENTIALS messages

Michael Kerrisk

If the buffer to receive SCM_RIGHTS FDs is too small, FDs are closed

Michael Kerrisk

One must send at least one byte of real data with ancillary data

Michael Kerrisk

Ancillary data forms a barrier when receiving on a stream socket

Michael Kerrisk

When sending ancillary data, only one item of each type may be sent

Michael Kerrisk

Improve wording describing socket option argument/return values

Michael Kerrisk

Clarify treatment of incoming ancillary data if 'msg_control' is NULL

Michael Kerrisk

Note behavior if buffer to receive ancillary data is too small

Michael Kerrisk

Fix a minor imprecision in description of SCM_CREDENTIALS

Michael Kerrisk

Refer reader to socket(7) for information about SO_PEEK_OFF

user_namespaces.7

Michael Kerrisk

Rework terminology describing ownership of nonuser namespaces

Prefer the word "owns" rather than

"associated with" when

describing the relationship between user namespaces and non-user namespaces. The existing text used a mix of the two terms, with "associated with" being predominant, but to my ear, describing the relationship as "ownership" is more comprehensible.

vdso.7

Helge Deller

Fix parisc gateway page description

ld.so.8

Michael Kerrisk [Florian Weimer, David Newall]

Document the --preload command-line option added in glibc 2.30

Michael Kerrisk

Note delimiters for 'list' in --audit and --inhibit-rpath

Michael Kerrisk

Place OPTIONS in alphabetical order

Michael Kerrisk

LD_PRELOAD-ed objects are added to link map in left-to-right order

zdump.8

Paul Eggert
Sync from tzdb upstream

zic.8

Paul Eggert
Sync from tzdb upstream

===== Changes in man-pages-5.01 =====

Released: 2019-05-09, Munich

Contributors

The

following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

tsearch.3

Florian Weimer [Michael Kerrisk]

Document the `twalk_r()` function added in glibc 2.30

New and changed links

twalk_r.3

Michael Kerrisk

New link to `twalk(3)` page

Changes to individual pages

accept.2

Michael Kerrisk

Note that 'addrrlen' is left unchanged in the event of an error

See <http://austingroupbugs.net/view.php?id=836>.

bpf.2

Michael Kerrisk

Update kernel version info for JIT compiler

clone.2

Michael Kerrisk [Jakub Nowak]

`CLONE_CHILD_SETTID` has effect before `clone()` returns *in the child*

`CLONE_CHILD_SETTID` may not have had effect by the time `clone()`

returns in the parent, which could be relevant if the

`CLONE_VM` flag is employed. The relevant kernel code is in

`schedule_tail()`, which is called in `ret_from_fork()`

in the child.

See https://bugzilla.kernel.org/show_bug.cgi?id=203105

execve.2

exec.3

Michael Kerrisk [Dr. Jürgen Saueremann]

Consistently use the term 'pathname' (not 'path')

execve.2

Michael Kerrisk

Note that `stack+environ` size is also limited to 3/4 of `_STK_LIM`

In `fs/exec.c::prepare_arg_pages()`, we have:

```
limit = _STK_LIM / 4 * 3;
limit = min(limit, bprm->rlim_stack.rlim_cur / 4);
```

Michael Kerrisk [Dr. Jürgen Sauermann]
SEE ALSO: refer to `exec(3)` (rather than `execl(3)`)

pipe.2

Michael Kerrisk
Note that 'pipefd' is left unchanged in the event of an error
See <http://austingroupbugs.net/view.php?id=467>.

sched_setaffinity.2

Michael Kerrisk [Brice Goglin]
Correct details of return value of `sched_getaffinity()` syscall

setfsuid.2

Michael Kerrisk
Rewrite for improved
clarity and defer to `setfsuid()` for details
Rewrite for improved clarity and defer to `setfsuid(2)` for the
rationale of the fsGID rather than repeating the same details
in this page.

setfsuid.2

Michael Kerrisk
Rewrite for improved clarity and to hint history more explicitly
The current text reads somewhat clumsily. Rewrite it to introduce
the eUID and fsUID in parallel, and more clearly hint at the
historical rationale for the fsUID, which is detailed lower in
the page.

socketpair.2

Michael Kerrisk
Clarify that 'sv' is left unchanged in the event of an error
See also <http://austingroupbugs.net/view.php?id=483>.

splice.2

Slavomir Kaslev
EAGAIN can occur when called on nonblocking file descriptors

syscalls.2

Michael Kerrisk [Andreas Korb]
Remove crufty text about i386 syscall dispatch table
The removed text long ago ceased to be
accurate. Nowadays, the
dispatch table is autogenerated when building the kernel (via
the kernel makefile, `arch/x86/entry/syscalls/Makefile`).

tee.2

Slavomir Kaslev

EAGAIN can occur when called on nonblocking file descriptors

fopen.3

Elliot Hughes

Explain BSD vs glibc "a+" difference

Where is the initial read position for an "a+" stream?

POSIX leaves this unspecified. Most BSD man pages are silent, and MacOS has the ambiguous "The stream is positioned at the end of the file", not differentiating between reads and writes other than to say that fseek(3) does not affect writes. glibc's documentation explicitly specifies that the initial read position is the beginning of the file.

mallinfo.3

Elliott Hughes

Further discourage use of mallinfo()

The BUGS section already explains why you need to be cautious about using mallinfo,

but given the number of bug reports we see

on Android, it seems not many people are reading that far. Call it out up front.

malloc_trim.3

Carlos O'Donell

Update trimming information

Since glibc 2.8, commit 68631c8eb92, the malloc_trim function has iterated over all arenas and free'd back to the OS all page runs that were free. This allows an application to call malloc_trim to consolidate fragmented chunks and free back any pages it can to potentially reduce RSS usage.

posix_memalign.3

Elliot Hughes

Some functions set errno

True of bionic, glibc, and musl. (I didn't check elsewhere.)

resolver.3

Michael Kerrisk [Wladimir Mutel]

Mention that some functions set 'h_errno'

stdarg.3

Michael Kerrisk [Vincent Lefevre]

Remove the NOTES section describing the ancient varargs macros
stdarg.h is now 30 years old, and gcc long ago (2004)

ceased to

implement `<varargs.h>`. There seems little value in keeping this text.

See https://bugzilla.kernel.org/show_bug.cgi?id=202907

Michael Kerrisk [Egmont Koblinger]

Add a note that `"..."` in function signature means a variadic function

Egmont suggested adding this, because the string `"..."` appears at several other points in the page, but just to indicate that some text is omitted from example code.

`strerror.3`

Jakub Wilk

Don't discuss buffer size for `strerror_l()`

Unlike `strerror_r()`, `strerror_l()` doesn't take buffer length as an argument.

`strtol.3`

`strtoul.3`

Jakub Wilk

SEE ALSO: add `strtoimax(3)`, `strtoumax(3)`

`sysconf.3`

Michael Kerrisk [Hugues Evrard]

Clearly note that `_SC_PAGESIZE` and `_SC_PAGE_SIZE` are synonyms

`tsearch.3`

Florian Weimer

Do not use `const` arguments in `twalk()` callback

The `const` specifier is not

part of the prototype (it only applies

to the implementation), so showing it here confuses the reader.

Michael Kerrisk

SYNOPSIS: add missing definition of `'VISIT'` type

Michael Kerrisk

Reformat `twalk()` and `twalk_r()` prototypes for easier readability

`console_codes.4`

Jakub Wilk

Document that `\e[1;n]` and `\e[2;n]` support 16 colors

Source: `setterm_command()` in `drivers/tty/vt/vt.c`

`elf.5`

Michael Kerrisk [Keegan Saunders]

A data segment does not have `PF_X`

`proc.5`

Michael Witten [Anisse Astier]

Add missing Inode field to /proc/net/unix

hostname.7

Florian Weimer

HOSTALIASES/search path processing is DNS-specific

Other NSS modules do not necessarily honor these settings.

inode.7

Michael Kerrisk

Note that timestamp fields measure time starting at the Epoch

Michael Kerrisk

Timestamp fields are structures that include a nanosecond component

Michael Kerrisk

Add references to execve(2) to describe set-UID/set-GID behaviors

==== Changes in man-pages-5.02 =====

Released: 2019-08-02, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

fanotify.7

fanotify_init.2

fanotify_mark.2

Matthew Bobrowski [Amir Goldstein, Jan Kara]

Document FAN_REPORT_FID and directory modification events

vdso.7

Tobias Klauser [Palmer Dabbelt]

Document vDSO for RISC-V

Renamed pages

sysvipc.7

svipc(7) is renamed to sysvipc(7).

The name sysvipc is a bit more natural, and is the name used in /proc/sysvipc.

New and

changed links

svipc.7

Michael Kerrisk

Add old name of sysvipc(7) page as a link

Global changes

Various pages

Michael Kerrisk

Change reference to svipc(7) to sysvipc(7)

Changes to individual pages

pldd.1

G. Branden Robinson [Michael Kerrisk]

Document glibc's unbreakage of tool

After a longstanding breakage, pldd now works again (glibc 2.30).

bpf.2

Michael Kerrisk

Correct kernel version for JIT support on s390

chdir.2

Michael Kerrisk

Add ENOTDIR error for fchdir()

execve.2

Michael Kerrisk [Eugene Syromyatnikov]

Since Linux 5.1, the limit on the #! line is 255 chars (rather than 127)

Shawn Landden [Michael Kerrisk]

Add more detail about Shebangs

Michael Kerrisk

Linux is not alone in ignoring the set-UID and set-GID bits for scripts

mount.2

Michael Kerrisk

ERRORS: Add a couple of EINVAL errors

for MS_MOVE

Michael Kerrisk

SEE ALSO: add chroot(2) and pivot_root(2)

mprotect.2

Mark Wielaard

pkey_mprotect() acts like mprotect() if pkey is set to -1, not 0

mprotect.2

pkey_alloc.2

Mark Wielaard [Florian Weimer]

_GNU_SOURCE is required for the pkey functions.

pivot_root.2

Michael Kerrisk

ERRORS: EINVAL occurs if 'new_root' or its parent has shared propagation

Michael Kerrisk

'new_root' must be a mount point

It appears that 'new_root' may not have needed to be a mount point on ancient kernels, but already in Linux 2.4.5 this changed.

Michael Kerrisk

'put_old' can't be a mount point with MS_SHARED propagation

Michael Kerrisk

SEE ALSO: add mount(2)

poll.2

Michael Kerrisk [Alan Stern]

Note that poll() equivalent code for ppoll() is not quite equivalent

prctl.2

Yang Xu [Cyrill Gorcunov]

Correct some details for PR_SET_TIMERSLACK

setxattr.2

Finn

O'Leary [Michael Kerrisk]

Add ERANGE to 'ERRORS' section

tkill.2

Michael Kerrisk

glibc 2.30 provides a wrapper for tkill()

dlopen.3

Michael Kerrisk

Clarify the rules for symbol resolution in a dlopen'ed object

The existing text wrongly implied that symbol look up first occurred in the object and then in main, and did not mention whether dependencies of main were used for symbol resolution.

Michael Kerrisk

Clarify when an executable's symbols can be used for symbol resolution

The --export-dynamic linker option is not the only way that main's global symbols may end up in the dynamic symbol table and thus be used to satisfy symbol reference in a shared object. A symbol may also be placed into the dynamic symbol table if ld(1) notices a dependency in another object during the static link.

Michael Kerrisk

An object opened with RTLD_LOCAL can be promoted to RTLD_GLOBAL

Michael Kerrisk

Note that symbol use might keep a dclose'd object in memory

Michael Kerrisk

On dclose(), destructors are called when reference count falls to 0

Michael Kerrisk

Make it clear that RTLD_NODELETE also affects global variables

Michael Kerrisk

Clarify that constructors are called only when library is first loaded

exec.3

Matthew Kenigsberg

Explain function groupings

I've found the exec man page quite difficult to read when trying to find the behavior for a specific function. Since the names of the functions are inline and the order of the descriptions isn't clear, it's hard to find which paragraphs apply to each function. I thought it would be much easier to read if the grouping based on letters is stated.

getutent.3

Michael Kerrisk [Thorsten Glaser]

Fix missing include file in EXAMPLE

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=932382>

on_exit.3

Michael Kerrisk [Sami Kerola]

Stack variables may be out of scope when exit handler is invoked

strcat.3

Michael Kerrisk [Eric Sanchis]

Fix off-by-one error in example code

cpuid.4

Michael Kerrisk

SEE ALSO: add cpuid(1)

elf.5

Michael Kerrisk

SEE ALSO: add ld.so(8)

proc.5

Michael Kerrisk

Correct description of /proc/PID/status 'ShdPnd' and 'SigPnd' fields
These fields are signal masks, not counters.

Michael Kerrisk

Clarify that various mask fields in /proc/PID/status are in hexadecimal

capabilities.7

Michael Kerrisk

Add a note about using strace on binaries that have capabilities

Michael Kerrisk

Add pivot_root(2) to CAP_SYS_ADMIN list

Michael Kerrisk

CAP_FOWNER also allows modifying user xattrs on sticky directories

cgroup_namespaces.7

Michael Kerrisk

Some wording fixes to improve

clarity

Michael Kerrisk

In the example shell session, give second shell a different prompt

credentials.7

Michael Kerrisk

Note that /proc/PID/status shows a process's credentials

Michael Kerrisk

SEE ALSO: add tcgetsid(3)

fanotify.7

Matthew Bobrowski

Reword FAN_REPORT_FID data structure inclusion semantics

Michael Kerrisk

Clarify logic in ESTALE check

Michael Kerrisk

Reorder text in EXAMPLE

Michael Kerrisk

Reformat program output to fit in 80 columns

mount_namespaces.7

Michael Kerrisk

Clarify implications for other NS if mount point is removed in one NS

If a mount point is deleted or renamed or removed in one mount

namespace, this will cause an object that is mounted at that

location in another mount namespace to be unmounted (as verified

by experiment). This was implied by the existing text, but it is

better to make this detail

explicit.

Michael Kerrisk

SEE ALSO: add pivot_root(2), pivot_root(8)

namespaces.7

Michael Kerrisk

Note initial values of hostname and domainname in a new UTS namespace

sched.7

Michael Kerrisk

SEE ALSO: add pthread_getschedparam(3)

signal.7

Michal Sekletar [Oleg Nesterov, Michael Kerrisk]

Clarify that signinfo_t isn't changed on coalescing

Michael Kerrisk

Various fields in /proc/PID/status show signal-related information

Michael Kerrisk

Add subsection on queuing and delivery semantics for standard signals

socket.7

Michael Kerrisk

select()/poll()/epoll honor SO_RCVLOWAT since Linux 2.6.28

unix.7

Michael Kerrisk

Note SCM_RIGHTS interaction with RLIMIT_NOFILE

If the file descriptors received in SCM_RIGHTS would cause the process to its exceed RLIMIT_NOFILE limit, the excess FDs are discarded.

user_namespaces.7

Michael Kerrisk

Describe the effect

of file-related capabilities inside user namespaces

Michael Kerrisk

Describe how kernel treats UIDs/GIDs when a process accesses files

vdso.7

Tobias Klauser

Mention removal of Blackfin port in Linux 4.17

ld.so.8

Michael Kerrisk [Matthias Hertel]

Note some further details of secure-execution mode

Note some further details of the treatment of environment variables in secure execution mode. In particular (as noted by Matthias Hertel), note that ignored environment variables are also stripped from the environment. Furthermore, there are some other variables, not used by the dynamic linker itself, that are also treated in this way (see the glibc source file sysdeps/generic/unsecvars.h).

==== Changes in man-pages-5.03 =====

Released: 2019-10-11, Munich

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Apologies if I missed anyone!

New and rewritten pages

pidfd_open.2

Michael Kerrisk [Christian Brauner, Florian Weimer,
Daniel Colascione]

New page documenting pidfd_open(2)

pidfd_send_signal.2

Michael Kerrisk [Florian Weimer, Christian Brauner]

New page documenting pidfd_send_signal(2)

pivot_root.2

Michael Kerrisk [Eric W. Biederman, Reid Priedhorsky, Philipp Wendler]

This page has been completely rewritten, adding a lot of missing details (including the use of pivot_root(".", ".")) and an example program. In addition, the text prevaricating on whether or not pivot_root() might change the root and current working directories has been eliminated, and replaced with a simple description of the behavior of the system call, which has not changed for 19 years, and will not change in the future. Many longstanding errors in the old version of the page have also been corrected.

ipc_namespaces.7

Michael Kerrisk

New page with content migrated from namespaces(7)

uts_namespaces.7

Michael Kerrisk

New page with content migrated from namespaces(7)

Newly documented interfaces in existing pages

clone.2

Christian Brauner, Michael Kerrisk

Document CLONE_PIDFD

Add an entry for CLONE_PIDFD. This flag is available starting with kernel 5.2. If specified, a process file descriptor ("pidfd") referring to the child process will be returned in

the ptid argument.

fanotify_mark.2

Jakub Wilk

Document FAN_MOVE_SELF

ptrace.2

Dmitry V. Levin [Michael Kerrisk]

Document PTRACE_GET_SYSCALL_INFO

regex.3

Rob Landley

Document REG_STARTEND

New and changed links

res_nclose.3

Michael Kerrisk

Add NEW link to resolver.3

Global changes

Various pages

Michael Kerrisk

SEE ALSO: correct list order

Various pages

Michael Kerrisk

Remove section number from references to function in its own page

Various pages

Michael Kerrisk

ERRORS: correct alphabetical order

Changes to individual pages

localedef.1

Marko Myllynen

Describe recently added options

Describe few recently added options (present in glibc-2.29).

clone.2

Michael Kerrisk

SEE ALSO: add pidfd_open(2)

copy_file_range.2

Amir Goldstein [Dave Chinner]

Kernel v5.3 updates

fanotify_mark.2

Jakub Wilk

Add kernel version numbers for some FAN_* constants

getdomainname.2

Michael Kerrisk

Add mention of UTS namespaces

gethostname.2

Michael Kerrisk [Jakub Wilk]

Mention UTS namespaces

io_submit.2

Matti Moell [Matti Möll]

Fix kernel version numbers for 'aio_rw_flags' flags

kill.2

Michael Kerrisk

SEE ALSO: add pidfd_send_signal(2)

mmap.2

Nikola Forró

Fix EINVAL conditions

Since introduction of MAP_SHARED_VALIDATE, in case flags contain both

MAP_PRIVATE and MAP_SHARED, mmap() doesn't fail with EINVAL, it succeeds.

The reason for that is that MAP_SHARED_VALIDATE is in fact equal to MAP_PRIVATE | MAP_SHARED.

mount.2

Michael Kerrisk [Reid Priedhorsky]

Describe the concept of "parent mounts"

Michael Kerrisk

NOTES: add subsection heading for /proc/[pid]/{mounts,mountinfo}

Michael Kerrisk

Rework the text on mount namespaces a little

Eliminate the term "Per-process namespaces" and add a reference to mount_namespaces(7).

move_pages.2

Yang Xu [Michael Kerrisk]

Mark E2BIG as deprecated

E2BIG was removed in 2.6.29, we should mark it as deprecated.

perf_event_open.2

Michael Kerrisk [Alexey Budankov]

SEE ALSO: add Documentation/admin-guide/perf-security.rst

prctl.2

Michael Kerrisk

Clarify that PR_GET_SPECULATION_CTRL returns value as function result

Michael Kerrisk

Clarify

that PR_MCE_KILL_GET returns value via function result

Michael Kerrisk

Clarify that PR_GET_FP_MODE returns value as function result

Michael Kerrisk

RETURN VALUE: add some missing entries

Note success return for PR_GET_SPECULATION_CTRL and PR_GET_FP_MODE.

rt_sigqueueinfo.2

Michael Kerrisk

Note that 'si_code' can't be specified as SI_KERNEL

Michael Kerrisk

The rules for 'si_code' don't apply when sending a signal to oneself

The restriction on what values may be specified in 'si_code'

apply only when sending a signal to a process other than the caller itself.

Michael Kerrisk

Rename 'uinfo' argument to 'info'

This is more consistent with the naming in other pages

that refer to a 'siginfo_t' structure.

Michael Kerrisk

SEE ALSO: add pidfd_send_signal(2)

sched_setaffinity.2

Michael Kerrisk

RETURN VALUE: sched_getaffinity() syscall differs

from the wrapper

setns.2

Mike Frysinger

Fix CLONE_NEWNS restriction info

sigaction.2

Michael Kerrisk

SEE ALSO: add pidfd_send_signal(2)

signalfd.2

Andrew Clayton, Michael Kerrisk

Note about interactions with epoll & fork

statx.2

Michael Kerrisk [Simone Piccardi]

Clarify details of a case where an invalid 'mask' value may be rejected

syscall.2

Shawn Anastasio

Add information for powerpc64

Michael Kerrisk [Adam Borowski, Florin Blanaru]

Update name of syscall instruction for riscv

syscalls.2

Michael Kerrisk

Add fsconfig(), fsmount(), fsopen(), fspick(), move_mount(), open_tree()

Michael Kerrisk [(), Michael(), Kerrisk(),]

Add new syscalls in 5.1

Add io_uring_enter(), io_uring_register(), io_uring_setup(), and pidfd_send_signal().

Michael Kerrisk

Add clone3() and pidfd_open()

uname.2

Michael Kerrisk

Replace reference to namespaces(7)

with reference to uts_namespaces(7)

errno.3

Rasmus Villemoes

Add some comments on EAGAIN/EWOULDBLOCK and EDEADLK/EDEADLOCK

fexecve.3

Michael Kerrisk [Simone Piccardi]

ENOSYS occurs only if the kernel provides no execveat() syscall

Michael Kerrisk [Simone Piccardi]

ERRORS: add ENOENT

getauxval.3

Raphael Moreira Zinsly

Add new cache geometry entries

printf.3

Vincent Lefevre

Add detail on the first digit with the %e format

pthread_setcancelstate.3

pthreads.7

signal-safety.7

Carlos O'Donell

Describe issues with cancellation points in signal handlers

strtok.3

Michael Kerrisk [eponymous alias]

Correct description of use of 'saveptr' argument in strtok_r()

Michael Kerrisk [eponymous alias]

The caller should not modify 'saveptr' between strtok_r() calls

Michael Kerrisk

Add portability note for strtok_r() '*saveptr' value

On some implementations, '*saveptr' must be

NULL on first call

to strtok_r().

smartpqi.4

Murthy Bhat [Don Brace, Kevin Barnett, Matt Perricone, Scott Benesh]

Add sysfs entries

Gilbert Wu [Don Brace, Kevin Barnett, Matt Perricone, Scott Benesh]

Add module param expose ld first

Dave Carroll [Don Brace, Kevin Barnett, Matt Perricone, Scott Benesh]

Add module param to hide vsep

core.5

Paul Wise

Explain the new situation with argument splitting

Things changed in Linux v5.3-rc3 commit 315c69261dd3 from
splitting after template expansion to splitting beforehand.

resolv.conf.5

Nikola Forró

Update information about search list

Since glibc 2.26, the number of domains in the search list is
no longer limited.

man-pages.7

Michael Kerrisk

Relocate and enhance the text on semantic newlines

Michael Kerrisk [Paul Wise]

Paragraphs should not be separated by blank lines

mount_namespaces.7

Michael

Kerrisk

Explain how a namespace's mount point list is initialized

Provide a more detailed explanation of the initialization of the mount point list in a new mount namespace.

Michael Kerrisk [Eric W. Biederman]

Clarify description of "less privileged" mount namespaces

Michael Kerrisk

SEE ALSO: refer to example in pivot_root(2)

Michael Kerrisk [Eric W. Biederman]

It may be desirable to disable propagation after creating a namespace

After creating a new mount namespace, it may be desirable to disable mount propagation. Give the reader a more explicit hint about this.

mq_overview.7

sysvipc.7

Michael Kerrisk

Adjust references to namespaces(7) to ipc_namespaces(7)

namespaces.7

Michael Kerrisk

Remove content migrated to new ipc_namespaces(7) page

Michael Kerrisk

Remove content migrated to uts_namespaces(7)

Michael Kerrisk

Include manual

page references in the summary table of namespace types

Make the page more compact by removing the stub subsections that list the manual pages for the namespace types. And while we're here, add an explanation of the table columns.

operator.7

Michael Kerrisk [Rick Stanley]

Prefix and postfix ++/-- have different precedences

Harbison and Steele also agree on this.

signal.7

Michael Kerrisk

Enhance the text on process-directed and thread-directed signals

clone(2) has a good description of these concepts; borrow from it liberally.

Michael Kerrisk

SEE ALSO: add pidfd_send_signal(2)

user_namespaces.7

Michael Kerrisk

Improve explanation of meaning of ownership of nonuser namespaces

==== Changes in man-pages-5.04 =====

Released: 2019-11-19, Munich

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

clone.2

Michael Kerrisk [Christian Brauner, Jakub Wilk]
Document clone3()

wait.2

Michael Kerrisk
Add P_PIDFD for waiting on a child referred to by a PID file descriptor

bpf-helpers.7

Michael Kerrisk
Refresh against kernel v5.4-rc7

New and changed links

clone3.2

Michael Kerrisk

New link to clone(2)

Changes to individual pages

clone.2

Michael Kerrisk

Rename arguments for consistency with clone3()

Make the names of the clone() arguments the same as the fields in the clone3() 'args' struct:

```
ctid    ==> child_pid
ptid    ==> parent_tid
newtls  ==> tld
child_stack ==> stack
```

Michael Kerrisk

Consistently order paragraphs for CLONE_NEW* flags

Sometimes the descriptions of these flags mentioned the corresponding section 7 namespace manual page and then the required capabilities, and sometimes the order was the reverse. Make it consistent.

Michael Kerrisk [Christian Brauner, Jann Horn]

EXAMPLE: Allocate child's

stack using mmap(2) rather than malloc(3)

Christian Brauner suggested mmap(MAP_STACK), rather than malloc(), as the canonical way of allocating a stack for the child of clone(), and Jann Horn noted some reasons why (MAP_STACK exists elsewhere, and mmap() returns a page-aligned block of memory, which is useful if we want to set up a guard page at the end of the stack).

Michael Kerrisk [Christian Brauner]

Tidy up the description of CLONE_DETACHED

The obsolete CLONE_DETACHED flag has never been properly documented, but now the discussion CLONE_PIDFD also requires mention of CLONE_DETACHED. So, properly document CLONE_DETACHED, and mention its interactions with CLONE_PIDFD.

Michael Kerrisk [Christian Brauner]

Give the introductory paragraph a new coat of paint

Change the text in the introductory paragraph (which was written

20 years ago) to reflect the fact that clone*() does more things nowadays.

Michael Kerrisk

Remove wording that suggests CLONE_NEW* flags are for containers

These flags are used for implementing many other interesting things by now.

Michael Kerrisk

Remove various details that are already covered in namespaces pages

Remove details of UTS, IPC, and network namespaces that are already covered in the corresponding namespaces pages in section 7.

clone.2

proc.5

Michael Kerrisk

Adjust references to namespaces(7)

Adjust references to namespaces(7) to be references to pages describing specific namespace types.

fallocate.2

Andrew Price

Add gfs2 to the list of punch hole-capable filesystems

ioctl_iflags.2

Michael Kerrisk [Robert Edmonds]

Emphasize that FS_IOC_GETFLAGS and FS_IOC_SETFLAGS argument is 'int *'

ioctl_list.2

Michael Kerrisk

Add reference to ioctl(2) SEE ALSO section

The referenced section lists various pages that document ioctls.

mmap.2

Michael Kerrisk

Note that MAP_STACK exists on some other systems

Michael Kerrisk

Some rewording of the description of MAP_STACK

Reword a little to allow for the fact that there are now *two* reasons to consider using this flag.

pidfd_open.2

Michael Kerrisk

Note the waitid() use case for PID file descriptors

Michael Kerrisk

Add a subsection header "Use cases for PID file descriptors"

Michael Kerrisk

Make it a little more explicit the CLONE_PIDFD returns a PID FD

pivot_root.2

Michael Kerrisk

EXAMPLE: allocate stack using mmap() MAP_STACK rather than malloc()

quotactl.2

Yang Xu [Jan Kara]

Add some details about Q_QUOTAON

seccomp.2

cgroups.7

Michael Kerrisk

Switch to "considerate language"

select.2

Michael Kerrisk

POLLIN_SET/POLLOUT_SET/POLLEX_SET

are now defined in terms of EPOLL*

Since kernel commit a9a08845e9acbd224e4ee466f5c1275ed50054e8, the equivalence between select() and poll()/epoll is defined in terms of the EPOLL* constants, rather than the POLL* constants.

wait.2

Michael Kerrisk

waitid() can be used to wait on children in same process group as caller

Since Linux 5.4, idtype == P_PGID && id == 0 can be used to wait on children in same process group as caller.

Michael Kerrisk

Clarify semantics of waitpid(0, ...)

As noted in kernel commit 821cc7b0b205c0df64cce59aacc330af251fa8f7, threads create an ambiguity: what if the calling process's PGID is changed by another thread while waitpid(0, ...) is blocked?

So, clarify that waitpid(0, ...) means wait for children whose PGID matches the caller's PGID at the time of the call to waitpid().

getauxval.3

Michael Kerrisk [Witold Baryluk]

Clarify that AT_BASE_PLATFORM and AT_EXECFN return pointers to strings

See <https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=942207>

resolv.conf.5

Florian Weimer

Attempt clarify domain/search interaction

The domain directive is historic at this point; it should not be used.

netdevice.7

Michael Kerrisk [Silviu Popescu]

Small wording fix in description of SIOCGIFCONF

SIOCGIFCONF returns "network layer" addresses (not "transport layer").

uts_namespaces.7

Michael Kerrisk

Add a little more detail on scope of UTS namespaces

===== Changes in man-pages-5.05 =====

Released: 2020-02-09, Munich

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The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

clone.2

Adrian Reber [Christian Brauner, Michael Kerrisk]

Add clone3() set_tid information

Michael Kerrisk

Document CLONE_CLEAR_SIGHAND

fcntl.2

Joel Fernandes [Michael Kerrisk]

Update manpage with new memfd F_SEAL_FUTURE_WRITE seal

memfd_create.2

Joel Fernandes

Update manpage with new memfd F_SEAL_FUTURE_WRITE seal

loop.4

Yang Xu

Document LOOP_SET_BLOCK_SIZE

Yang Xu

Document LOOP_SET_DIRECT_IO

proc.5

Michael Kerrisk

Document /proc/sys/vm/unprivileged_userfaultfd

Changes to individual pages

capget.2

Michael Kerrisk [Yang Xu]

Add missing details in EPERM error for setting inheritable capabilities

clone.2

Michael Kerrisk

Note that CLONE_THREAD causes similar behavior to CLONE_PARENT

The introductory paragraphs note that "the calling process" is normally synonymous with the "the parent process", except in the case of CLONE_PARENT. The same is also true of CLONE_THREAD.

Christian Brauner [Michael Kerrisk]

Mention that CLONE_PARENT is off-limits for inits

Michael Kerrisk [Colin Ian King]

Add old EINVAL error for AArch64

Michael Kerrisk

ERRORS: add EINVAL for use of CLONE_PARENT by an init process

futex.2

Ponnuvel Palaniyappan

Fix

a bug in the example

listen.2

Michael Kerrisk [Peter Gajdos]

The 'somaxconn' default value has increased to 4096

modify_ldt.2

set_thread_area.2

Andy Lutomirski [Markus T Metzger]

Fix type of base_addr

move_pages.2

John Hubbard [Michal Hocko]

Remove ENOENT from the list of possible return values

open.2

Adam Borowski

No need for /proc to make an O_TMPFILE file permanent

In the example snippet, we already have the fd, thus there's no need to refer to the file by name. And, /proc/ might be not mounted or not accessible.

Michael Kerrisk [Joseph C. Sible]

In O_TMPFILE example, describe alternative linkat() call

This was already shown in an earlier version of the page, but Adam Borowski's patch replaced it with an alternative.

Probably, it is better to show both possibilities.

perf_event_open.2

Daniel Colascione

Mention EINTR for perf_event_open

ptrace.2

Denys Vlasenko

PTTRACE_EVENT_STOP does not always report SIGTRAP

quotactl.2

Michael Kerrisk

Don't show numeric values of Q_XQUOTAON XFS_QUOTA_?DQ_* flags

The programmer should not need to care about the numeric values,
and their inclusion is verbosity.

Yang Xu [Michael Kerrisk]

Add EINVAL error of Q_XQUOTARM operation

stime.2

Michael Kerrisk

Note that stime() is deprecated

syscall.2

Petr Vorel [Cyril Hrubis]

Update feature test macro requirements

sysctl.2

Michael Kerrisk

This system call was removed in Linux 5.5; adjust the page accordingly

userfaultfd.2

Yang Xu [Michael Kerrisk]

Add EPERM error

cmsg.3

Rich Felker

Clarify alignment issues and correct method of accessing CMSG_DATA()

From an email by Rich Felker:

It came to my attention while reviewing possible breakage with
move to 64-bit time_t that some applications

are dereferencing

data in socket control messages (particularly SCM_TIMESTAMP*)
in-place as the message type, rather than memcopy'ing it to
appropriate storage. This necessarily does not work and is not
supportable if the message contains data with greater alignment
requirement than the header. In particular, on 32-bit archs,
cmsghdr has size 12 and alignment 4, but struct timeval and
timespec may have alignment requirement 8.

Michael Kerrisk [Rich Felker]

Modify CMSG_DATA() example to use memcpy()

See previous patch to this page for rationale

exit.3

Benjamin Peterson [Mike Frylinger]

Use hex for the status mask

ftime.3

Michael Kerrisk

Note that this function is deprecated

getpt.3

Samuel Thibault

Remove mention of O_NOCTTY

The glibc implementation of getpt has actually never been setting

malloc.3

Vegard Nossum

Clarify realloc() return value

Petr Vorel

Remove duplicate _GNU_SOURCE

console_codes.4

Adam Borowski

Document `\e[90m to 97, 100 to 107`

Adam Borowski

`\e[21m` is now underline

Since 65d9982d7e523a1a8e7c9af012da0d166f72fc56 (4.17), it follows xterm rather than common sense and consistency, being the only command 1..9 where N+20 doesn't undo what N did. As libvte 0.51.90 got changed the same way, this behaviour will probably stay.

Adam Borowski

Update `\e[38m` and `\e[48m`

Supported since cec5b2a97a11ade56a701e83044d0a2a984c67b4 (3.16).

cgroups.7

Michael Kerrisk

The v2 freezer controller was added in Linux 5.2

Michael Kerrisk

Split discussion of cgroups.events file and v2 release notification

In preparation for adding a description of the "frozen" key.

Michael Kerrisk

Describe the cgroup.events "frozen" key

Michael Kerrisk

Improve the discussion of the advantages of v2 release notification

inotify.7

Nick Shipp

Merge late perror() into fprintf() in example code

netlink.7

Antonin Décimo

Fix alignment issue in example

packet.7

kevin sztern [Michael Kerrisk]

Add missing tpacket_auxdata field (tp_vlan_tpid)

rtnetlink.7

Antonin Décimo

ifa_index is an unsigned int

tcp.7

Michael Kerrisk

tcp_low_latency is ignored since Linux 4.14

unix.7

Michael Kerrisk

The PID sent with SCM_CREDENTIALS must match an existing process

vsock.7

Mikhail Golubev [Michael Kerrisk]

Add missing structure element

The structure 'struct sockaddr_vm' has additional element
'unsigned char svm_zero[]' since version v3.9-rc1.

ldconfig.8

DJ Delorie

Document file filter and symlink pattern expectations

==== Changes in man-pages-5.06 =====

Released: 2020-04-11, Munich

Contributors

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following people contributed patches/fixes or (noted in brackets
in the changelog below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages

openat2.2

Aleksa Sarai [Michael Kerrisk]

Document new openat2(2) syscall

pidfd_getfd.2

Michael Kerrisk [Christian Brauner]

New manual page documenting the pidfd_getfd() system call

select.2

Michael Kerrisk

Rewrite DESCRIPTION

Improve structure and readability, at the same time incorporating text and details that were formerly in select_tut(2). Also move a few details in other parts of the page into DESCRIPTION.

Michael Kerrisk

Consolidate the discussion of pselect into a headed subsection

Michael Kerrisk

Consolidate historical glibc pselect() details under one subhead

Michael Kerrisk

Consolidate info on usleep() emulation in one place

Michael Kerrisk

Place the discussion of the self-pipe technique in a headed subsection

Michael Kerrisk

Note that FD_SET() and FD_CLR() do not return errors

Michael Kerrisk

Remove details of historical #include requirements

The POSIX situation has been the norm for a long time now, and including ancient details overcomplicates the page.

Michael Kerrisk

Remove some ancient information about pre-POSIX types for 'timeout'

select_tut.2

Michael Kerrisk

Eliminate duplication of info across select_tut.2 and select2

There was a lot of a duplication of info in SYNOPSIS, DESCRIPTION RETURN VALUE, and SEE ALSO. Move all of the info to one place: the select(2) page.

sysvipc.7

Michael Kerrisk

Rewrite this page as just a summary of the System V IPC APIs

All of the other details in this page have by now been moved into the relevant *ctl(2) pages.

time_namespaces.7

Michael Kerrisk [Andrei Vagin, Dmitry Safonov, Thomas Gleixner]

New page documenting time namespaces

Newly documented interfaces in existing pages

arch_prctl.2

Keno Fischer

Add ARCH_SET_CPUID subcommand

clock_getres.2

Benjamin Peterson

Document CLOCK_TAI

Michael Kerrisk

Add CLOCK_REALTIME_ALARM and CLOCK_BOOTTIME_ALARM

prctl.2

Mike Christie [Michal Hocko, Michael Kerrisk, Bart Van Assche]

Document PR_SETIO_FLUSHER/GET_IO_FLUSHER

setns.2

Michael Kerrisk

Document CLONE_NEWTIME

statx.2

Eric Biggers

Document STATX_ATTR_VERITY

unshare.2

Michael Kerrisk

Document CLONE_NEWTIME

socket.7

Ricardo Biehl Pasquali, Michael Kerrisk

Add description of SO_SELECT_ERR_QUEUE

Alejandro Colomar [Michael Kerrisk]

Document SO_TIMESTAMPNS

Global changes

Various pages

Michael Kerrisk

Remove a few mentions of the ancient "Linux libc"

Various pages

Michael Kerrisk

Global formatting fix: disfavor nonstandard .TP indents

In many cases, these don't improve readability, and (when stacked)

they sometimes have the side effect of sometimes forcing text to be justified within a narrow column range.

Various pages

Michael Kerrisk [Christian Brauner]

Fix clumsy wording around "nonnegative file descriptors"

Changes to individual pages

clock_getres.2

Helge Deller [Michael Kerrisk]

Consecutive calls for CLOCK_MONOTONIC may return same value

Consecutive calls to clock_gettime(CLOCK_MONOTONIC) are guaranteed to return MONOTONIC values, which means that they either return the *SAME* time value like the last call, or a later (higher) time value.

Eric Rannaud

Dynamic POSIX clock devices can return other errors

Michael Kerrisk

Improve description of CPU-time clocks

Michael Kerrisk

Add an example program

Michael Kerrisk

CLOCK_REALTIME_COARSE is not settable

Michael Kerrisk

Note that CPU-time clocks are not settable.

Explicitly note that CLOCK_PROCESS_CPUTIME_ID and CLOCK_PROCESS_CPUTIME_ID are not settable.

Michael Kerrisk

Clarify that CLOCK_TAI is nonsettable

Michael Kerrisk

Clarify that CLOCK_MONOTONIC is system-wide

Michael

Kerrisk

ERRORS: add EINVAL for attempt to set a nonsettable clock

Michael Kerrisk

Move text in BUGS to NOTES

The fact that CLOCK_PROCESS_CPUTIME_ID and CLOCK_PROCESS_CPUTIME_ID are not settable isn't a bug, since POSIX does allow the possibility that these clocks are not settable.

Michael Kerrisk

SEE ALSO: add time_namespaces(7)

clock_nanosleep.2

Michael Kerrisk

clock_nanosleep() can also sleep against CLOCK_TAI

Michael Kerrisk

clock_nanosleep() also supports CLOCK_BOOTTIME

Presumably (and from a quick glance at the source code)

since Linux 2.6.39, when CLOCK_BOOTTIME was introduced.

clock_nanosleep.2

timer_create.2

timerfd_create.2

Michael Kerrisk

Add various missing errors

Mostly verified by testing and reading the code.

There is unfortunately quite a bit of inconsistency across API~s:

clock_gettime clock_settime clock_nanosleep timer_create timerfd_create

CLOCK_BOOTTIME	y	n (EINVAL)	y	y	y	
CLOCK_BOOTTIME_ALARM	y	n (EINVAL)	y [1]	y [1]	y [1]	
CLOCK_MONOTONIC	y	n (EINVAL)	y	y	y	
CLOCK_MONOTONIC_COARSE	y	n (EINVAL)	n (ENOTSUP)	n (ENOTSUP)	n (EINVAL)	
CLOCK_MONOTONIC_RAW	y	n (EINVAL)	n (ENOTSUP)	n (ENOTSUP)	n (EINVAL)	
CLOCK_REALTIME	y	y	y	y	y	
CLOCK_REALTIME_ALARM	y	n (EINVAL)	y [1]	y [1]	y [1]	
CLOCK_REALTIME_COARSE	y	n (EINVAL)	n (ENOTSUP)	n (ENOTSUP)	n (EINVAL)	
CLOCK_TAI	y	n (EINVAL)	y	y	n (EINVAL)	
CLOCK_PROCESS_CPUTIME_ID						
y	n (EINVAL)	y	y	n (EINVAL)		
CLOCK_THREAD_CPUTIME_ID	y	n (EINVAL)	n (EINVAL [2])	y	n (EINVAL)	
pthread_getcpuclockid()	y	n (EINVAL)	y	y	n (EINVAL)	

[1] The caller must have CAP_WAKE_ALARM, or the error EPERM results.

[2] This error is generated in the glibc wrapper.

connect.2

Michael Kerrisk [Eric Dumazet]

Update the details on AF_UNSPEC

Update the details on AF_UNSPEC and circumstances in which socket can be reconnected.

dup.2

Michael Kerrisk

SEE ALSO: add pidfd_getfd(2)

epoll_ctl.2

Michael Kerrisk

Various minor additions and clarifications

epoll_wait.2

Michael Kerrisk

A few minor additions and rewrites

execve.2

Michael Kerrisk

Add a subhead for the discussion of effect on process attributes

Michael Kerrisk

Explicitly note

that `argv[argc] == NULL` in the new program

Michael Kerrisk

ERRORS: ENOENT does not occur for missing shared libraries

See http://sourceware.org/bugzilla/show_bug.cgi?id=12241.

_exit.2

Michael Kerrisk

Clarify that raw `_exit()` system call terminates only the calling thread

inotify_add_watch.2

Michael Kerrisk

EXAMPLE: add reference to example in `inotify(7)`

io_submit.2

Julia Suvorova

Add `IOCB_CMD_POLL` opcode

lseek.2

Michael Kerrisk [Matthew Wilcox]

ERRORS: ENXIO can also occur `SEEK_DATA` in middle of hole at end of file

madvise.2

Michael Kerrisk [Andrea Arcangeli]

Incorporate some (ancient) comments about `MADV_HUGEPAGE`

Back in 2011, a mail from Andrea Arcangeli noted some details

that I never got round to incorporating into the manual page.

mmap.2

Michael Kerrisk

Add a subhead for the 'flags' argument

Michael Kerrisk

Move some text hidden at the end of

DESCRIPTION to NOTES

msgctl.2

Michael Kerrisk

Add information on permission bits (based on `sysvipc(7)` text)

Michael Kerrisk

Copy information on 'msqid_ds' fields from sysvipc(7)

open.2

Michael Kerrisk

Clarify that O_NOFOLLOW is relevant (only) for basename of 'pathname'

Aleksa Sarai

Add references to new openat2(2) page

Michael Kerrisk

Note EINVAL error for invalid character in basename of 'pathname'

pidfd_open.2

Michael Kerrisk

Mention pidfd_getfd(2)

poll.2

Michael Kerrisk

Add an example program

Michael Kerrisk

Mention epoll(7) in the introductory paragraph

Michael Kerrisk

Improve description of EFAULT error

Michael Kerrisk

Fix description of ENOMEM error

select_tut.2

Michael Kerrisk

Adjust header file includes in example

Employ <sys/select.h>, rather than the historical header files.

semctl.2

Michael Kerrisk

Copy information

on 'semid_ds' fields from sysvipc(7)

Michael Kerrisk

Add a reference to the example in shmop(2)

Michael Kerrisk

Add information on permission bits (based on sysvipc(7) text)

semget.2

Michael Kerrisk

EXAMPLE: add an example program

semop.2

Michael Kerrisk

Add a reference to the semop(2) example in shmop(2)

shmctl.2

Michael Kerrisk

Add information on permission bits (based on sysvipc(7) text)

Michael Kerrisk

Note that execute permission is not needed for shmat() SHM_EXEC

Michael Kerrisk

Copy information on 'shmid_ds' fields from sysvipc(7)

Michael Kerrisk

Some small improvements to the description of the 'shmid_ds' structure

shmget.2

Michael Kerrisk

Add a reference to the example in shmop(2)

shmop.2

Michael Kerrisk

EXAMPLE: add a pair of example programs

Add example programs demonstrating usage of shmget(2), shmat(2),
semget(2), semctl(2),

and semop(2).

sigaction.2

signal.7

Zack Weinberg

Document kernel bugs in delivery of signals from CPU exceptions

stat.2

Michael Kerrisk

Clarify definitions of timestamp fields

In particular, make it clear that atime and mtime relate to the
file *data*.

syscalls.2

Michael Kerrisk

Add new Linux 5.6 system calls

Michael Kerrisk

Note that the 5.x series followed 4.20

timer_create.2

Michael Kerrisk

timer_create(2) also supports CLOCK_TAI

Michael Kerrisk

Mention clock_getres(2) for further details on the various clocks

timerfd_create.2

Michael Kerrisk [Thomas Gleixner]

Note a case where timerfd_settime() can fail with ECANCELED

Michael Kerrisk [devi R.K, Thomas Gleixner]

Negative changes to CLOCK_REALTIME may cause read() to return 0

Michael Kerrisk

Rework text for EINVAL for invalid clock ID

Michael Kerrisk

Refer reader to clock_getres(2) for further details on the clocks

unshare.2

Michael Kerrisk

Add CLONE_NEWCGROUP and CLONE_NEWTIME to example program

exit.3

Michael Kerrisk [Walter Harms]

Small improvement to the discussion of 'status' argument

ftok.3

Michael Kerrisk

EXAMPLE: add a reference to the example in semget(2)

getifaddrs.3

Michael Kerrisk [Michael Galassi]

EXAMPLE: remove unneeded loop variable

nl_langinfo.3

Eugene Syromyatnikov

Document era-related locale elements

Eugene Syromyatnikov

Add information about AM/PM time format locale elements

Eugene Syromyatnikov

Mention the respective strftime(3) conversion specifications

sem_init.3

Michael Kerrisk

Add references to example code in shm_open(3) and sem_wait(3)

sem_post.3

Michael Kerrisk

Add a reference to code example code in shm_open(3)

shm_open.3

Michael Kerrisk

EXAMPLE: add some example programs

strcmp.3

Michael Kerrisk

Add an example program

Michael Kerrisk [Andrew Micallef, Walter Harms]

Rework text describing return value to be clearer

Michael Kerrisk

Note that the comparison is done using unsigned char

Michael Kerrisk

SEE ALSO: add ascii(7)

strftime.3

Eugene Syromyatnikov [Michael Kerrisk]

Refer to the relevant nl_langinfo(3) items

Eugene Syromyatnikov

Expand %E and %O description

Eugene Syromyatnikov

Consistently document fall-back format string

proc.5

Mike Frysinger

Clarify /proc/[pid]/cmdline mutability

cgroups.7

Michael Kerrisk

Update list of cgroups v2 controllers

Update the list of cgroups v2 controllers (several controllers were missing).

Michael Kerrisk

Add a subsection on cgroup v2 mount options and include 'nsdelegate'

Michael Kerrisk

Document the cgroups v2 'memory_localevents' mount option

Michael Kerrisk

SEE ALSO: add Documentation/admin-guide/cgroup-v2.rst

namespaces.7

Michael Kerrisk

Add time namespaces information

Michael Kerrisk

Eliminate some superfluous info from display of /proc/PID/ns links

path_resolution.7

Aleksa Sarai

Update to mention openat2(2) features

socket.7

Michael Kerrisk

Note SCM message types for SO_TIMESTAMP and SO_TIMESTAMPNS

tcp.7

Michael Kerrisk

SEE ALSO: mention Documentation/networking/ip-sysctl.txt

time.7

Michael Kerrisk

Add small subsection on clocks and time namespaces

unix.7

Heinrich Schuchardt

Correct example

vsock.7

Stefano Garzarella [Jorgen Hansen, Stefan Hajnoczi]

Add VMADDR_CID_LOCAL description

===== Changes in man-pages-5.07 =====

Released: 2020-06-09, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

New and rewritten pages

ioctl_fslabel.2

Eric Sandeen

New page documenting filesystem get/set label ioctl(2) operations

Removed pages

ioctl_list.2

Michael Kerrisk [Heinrich Schuchardt, Eugene Syromyatnikov]

This page was first added more than 20 years ago. Since that time it has seen hardly any update, and is by now very much out of date, as reported by Heinrich Schuchardt and confirmed by Eugene Syromyatnikov.

As Heinrich says:

Man-pages like netdevices.7 or ioctl_fat.2 are what is needed to help a user who does not want to read through the kernel code.

If ioctl_list.2 has not been reasonably maintained since Linux 1.3.27 and hence is not a reliable source of information, shouldn't it be dropped?

My answer is, yes (but

let's move a little info into ioctl(2)).

Newly documented interfaces in existing pages

adjtimex.2

Arnd Bergmann [Richard Cochran, Michael Kerrisk]

Document clock_adjtime(2)

clock_getres.2

Richard Cochran [Michael Kerrisk]

Explain dynamic clocks

clone.2

Christian Brauner, Michael Kerrisk

Document the clone3() CLONE_INTO_CGROUP flag

mremap.2

Brian Geffon, Michael Kerrisk [Lokesh Gidra]

Document MREMAP_DONTUNMAP

open.2

Joseph C. Sible [Michael Kerrisk]

Document fs.protected_fifos and fs.protected_regular

prctl.2

Dave Martin

Add PR_SPEC_INDIRECT_BRANCH for SPECULATION_CTRL prctls

Dave Martin

Add PR_SPEC_DISABLE_NOEXEC for SPECULATION_CTRL prctls

Dave Martin

Add PR_PAC_RESET_KEYS (arm64)

ptrace.2

Joseph C. Sible

Document PTRACE_SET_SYSCALL

proc.5

Michael Kerrisk

Document /proc/sys/fs/protected_regular

Michael

Kerrisk

Document /proc/sys/fs/protected_fifos

Michael Kerrisk

Document /proc/sys/fs/aio-max-nr and /proc/sys/fs/aio-nr

New and changed links

clock_adjtime.2

Arnd Bergmann

New link to adjtimex(2)

Global changes

Various pages

Michael Kerrisk

Retitle EXAMPLE section heading to EXAMPLES

EXAMPLES appears to be the wider majority usage across various projects' manual pages, and is also what is used in the POSIX manual pages.

Various pages

Michael Kerrisk

Correct bogus POSIX.1 standards names

POSIX.1-2003 ==> POSIX.1-2001 TC1

POSIX.1-2004 ==> POSIX.1-2001 TC2

POSIX.1-2013 ==> POSIX.1-2008 TC1

POSIX.1-2016 ==> POSIX.1-2008 TC2

Various pages

Michael Kerrisk

Add section number in page cross-reference.

Various pages

Kir Kolyshkin

Add missing commas in SEE ALSO

Various pages

Michael Kerrisk

Remove AVAILABILITY section heading

In the few pages where this heading (which is "nonstandard" within man-pages) is used, it always immediately follows CONFORMING TO and generally contains information related to standards. Remove the section heading, thus incorporating AVAILABILITY into CONFORMING TO.

Various pages

Michael Kerrisk

Remove section number in page self-references

Various pages

Michael Kerrisk

Put SEE ALSO entries in alphabetical order

Various pages

Michael Kerrisk

Place SH sections in standard order

Fix various pages that deviated from the norm described in man-pages(7).

Various "aio" pages

Michael Kerrisk [Andi Kleen, Jeff Moyer]

Change uses of aio_context_t to io_context_t

Changes to individual pages

bpf.2

Peter Wu

Update enum bpf_map_type and enum bpf_prog_type

Richard Palethorpe

Change note on unprivileged access

The kernel now allows calls to bpf() without CAP_SYS_ADMIN under some circumstances.

clone.2

Michael Kerrisk

Add kernel version numbers for clone_args fields

Michael Kerrisk

Combine separate NOTES sections

close.2

Michael Kerrisk [Lukas Czerner, Peter Schiffer, Thierry Lelegard]

Note behavior when close() happens in a parallel thread

If one thread is blocked in an I/O system call on a file descriptor that is closed in another thread, then the blocking system call does not return immediately, but rather when the I/O operation completes. This surprises some people, but is longstanding behavior.

connect.2

Stefan Puiu

Can return EACCES because of SELinux

execve.2

Michael Kerrisk [Eric Hopper]

Changes to the "dumpable" flag may change ownership of /proc/PID files

Michael Kerrisk

Improve/correct

discussion of changes to dumpable flag during execve(2)

The details were not quite accurate. Defer to prctl(2)
for the more complete picture.

Nikola Forró

Clarify signal sent to the process on late failure

Michael Kerrisk

SEE ALSO: add capabilities(7)

fanotify_init.2

Amir Goldstein [Matthew Bobrowski]

Move out of place entry FAN_REPORT_FID

It was inserted in the middle of the FAN_CLASS_multi flags bit
and broke the multi flag documentation.

Michael Kerrisk [Alexander Morozov, Amir Goldstein, Jan Kara]

Remove mention of FAN_Q_OVERFLOW as an input value in 'mask'

See https://bugzilla.kernel.org/show_bug.cgi?id=198569.

Amir Goldstein [Jan Kara, Matthew Bobrowski]

Clarification about FAN_EVENT_ON_CHILD and new events

Amir Goldstein [Jan Kara, Matthew Bobrowski]

Clarification about FAN_MARK_MOUNT and FAN_REPORT_FID

getdents.2

Petr Vorel [Michael

Kerrisk]

Mention glibc support for getdents64()

Support was added in glibc 2.30.

Chris Lamb

Correct linux_dirent definition in example code

It is "unsigned long" earlier up in the file

gettid.2

Michael Kerrisk [Joseph C. Sible]

Document header file and feature test macro requirements for gettid()

ioctl.2

Michael Kerrisk

SEE ALSO: add ioctl_fslabel(2)

Michael Kerrisk

Remove mentions of ioctl_list(2)

Michael Kerrisk

Move subsection on "ioctl structure" from ioctl_list(2) to ioctl(2)

io_setup.2

Michael Kerrisk

Tweak description of /proc/sys/fs/aio-max-nr

mbind.2

Li Xinhai [Michael Kerrisk]

Remove note about MPOL_MF_STRICT been ignored

mmap.2

Michael Kerrisk [Heinrich Schuchardt]

Don't mark MAP_ANON as deprecated

move_pages.2

Yang Shi [Michal Hocko]

Returning positive value is a new error case

mremap.2

Michael Kerrisk

Remove

mention of "Segmentation fault" in EFAULT text

"Segmentation fault" (SIGSEGV) is not exactly the same thing as EFAULT.

Michael Kerrisk

Reorder some paragraphs in NOTES

Michael Kerrisk

Move a paragraph from DESCRIPTION to NOTES

msgctl.2

Michael Kerrisk

Correct description of 'msg_ctime' field

Verified by inspecting kernel source.

nfsservctl.2

Michael Kerrisk

SEE ALSO: add nfsd(7)

open.2

Michael Kerrisk

Some '*at' APIs have functionality that isn't in conventional APIs

Note that another reason to use the *at() APIs is to access 'flags' functionality that is not available in the corresponding conventional APIs.

Michael Kerrisk

Add a few more APIs to list in "Rationale for openat()..."

There have been a few more dirfd APIs added in recent times.

Michael Kerrisk

Explain ways in which a 'directory file descriptor' can be obtained

Michael Kerrisk

Add openat2() to list of APIs that take a 'dirfd' argument

openat2.2

Michael Kerrisk [Aleksa Sarai]

Various changes after feedback from Aleksa Sarai

poll.2

Michael Kerrisk

Add license to example program

prctl.2

Dave Martin

Sort prctls into alphabetical order

Dave Martin

Clarify that prctl can apply to threads

The current synopsis for prctl(2) misleadingly claims that prctl operates on a process. Rather, some (in fact, most) prctls operate

Dave Martin [Dave Hansen]

Document removal of Intel MPX prctls

Dave Martin

Fix mis-description of thread ID values in procfs

Dave Martin

Work around bogus constant "maxsig" in PR_SET_PDEATHSIG

Michael Kerrisk

Add reference to proc(5) for /proc/self/task/[tid]/comm

Dave Martin [Michael Kerrisk]

Add health warning

Dave Martin

Clarify the unsupported hardware case of EINVAL

rename.2

Michael Kerrisk

SEE ALSO: add rename(1)

s390_runtime_instr.2

Heiko Carstens [Eugene Syromyatnikov, Michael Kerrisk]

Document signum argument behavior change

Document that the signum argument is ignored in newer kernels, but that user space should pass a valid real-time signal number for backwards compatibility.

semctl.2

Michael Kerrisk [Manfred Spraul]

Correct description of sem_ctime field

semget.2

Michael Kerrisk

Add license to example program

shmctl.2

Michael Kerrisk

Correct 'shm_ctime' description

shmop.2

Michael Kerrisk

Add license to example programs

statfs.2

Michael Kerrisk [David Adam]

Add SMB2 constant to filesystem types list

syscall.2

Dave Martin [Will Deacon]

arm64: Fix syscall number register size

Dave Martin [Russell King]

arm: Use real register names for arm/OABI

sysfs.2

Michael Kerrisk

SEE

ALSO: add proc(5) and sysfs(5)

utimensat.2

Goldwyn Rodrigues

Immutable flag returns EPERM

Linux kernel commit 337684a1746f "fs: return EPERM on immutable inode" changed the return value of the utimensat(2) from -EACCES to -EPERM in case of an immutable flag.

wait4.2

Michael Kerrisk

Update wait3() feature test macro requirements for changes in glibc 2.26

cexp.2.3

Michael Kerrisk

Still not present in glibc 2.31

cmsg.3

Michael Kerrisk

CONFORMING TO: note which CMSG_* APIs are in current and upcoming POSIX

dirfd.3

Michael Kerrisk

SEE ALSO: add openat(2)

dlsym.3

Alexander Monakov

Extend discussion of NULL symbol values

Avoid implying that use of IFUNC is the only way to produce a symbol with NULL value. Give more scenarios how a symbol may get NULL value, but explain that in those scenarios dlsym() will fail

with Glibc's ld.so due
to an implementation inconsistency.

err.3

Michael Kerrisk

EXAMPLES: use EXIT_FAILURE rather than 1 as exit status

expm1.3

Michael Kerrisk

The expm1() bogus underflow floating-point exception has been fixed

See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6778

Michael Kerrisk

The bogus invalid floating-point exception bug has been fixed

https://www.sourceware.org/bugzilla/show_bug.cgi?id=6814.

fdim.3

Michael Kerrisk

BUGS: these functions did not set errno on some architectures

https://www.sourceware.org/bugzilla/show_bug.cgi?id=6796

ftw.3

Michael Kerrisk

glibc eventually fixed a regression in FTW_SLN behavior

For details, see:

https://bugzilla.redhat.com/show_bug.cgi?id=1422736

<http://austingroupbugs.net/view.php?id=1121>

https://bugzilla.redhat.com/show_bug.cgi?id=1422736

getauxval.3

YunQiang Su

MIPS, AT_BASE_PLATFORM passes

ISA level

getdtablesize.3

Michael Kerrisk

Remove redundant statement that getdtablesize() is a library function

malloc.3

Michael Kerrisk

Add 'reallocarray' in NAME

Michael Kerrisk

Add VERSIONS section noting when reallocarray() was added to glibc

newlocale.3

Michael Kerrisk [Piotr Caban]

Fix a valgrind issue in example program

See https://bugzilla.kernel.org/show_bug.cgi?id=202977.

nextafter.3

Michael Kerrisk

Since glibc 2.23, these functions do set errno

See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6799.

posix_spawn.3

Olivier Gayot [Adhemerval Zanella]

Clarify by using name of steps rather than syscalls

Olivier Gayot [Adhemerval Zanella]

Document implementation using clone() since glibc 2.24

Olivier Gayot [Adhemerval Zanella]

Document POSIX_SPAWN_USEVFORK

Added a few lines about POSIX_SPAWN_USEVFORK so that it appears

clearly that since glibc 2.24, the flag has no effect.

Olivier Gayot [Adhemerval Zanella]

Document the POSIX_SPAWN_SETSID attribute

pow.3

Michael Kerrisk

BUGS: pow() performance problem for some (rare) inputs has been fixed

See https://sourceware.org/bugzilla/show_bug.cgi?id=13932

Michael Kerrisk

Several bugs in glibc's pow() implementation were fixed in glibc 2.16

See https://www.sourceware.org/bugzilla/show_bug.cgi?id=3866.

Michael Kerrisk

Add a subheading to mark off historical bugs that are now fixed

printf.3

Tobias Stoeckmann

Prevent signed integer overflow in example

ptsname.3

Bruno Haible

Fix description of failure behaviour of ptsname_r()

random.3

John Marshall

Change "RAND_MAX" to "2^31-1"

scalb.3

Michael Kerrisk

These functions now correctly set errno for the EDOM and ERANGE cases

See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6803

and https://www.sourceware.org/bugzilla/show_bug.cgi?id=6804

scalbln.3

Michael Kerrisk

These functions now correctly set errno for the ERANGE case
See https://www.sourceware.org/bugzilla/show_bug.cgi?id=6803

scanf.3

Michael Kerrisk [Jürgen Saueremann]

Clarify that 'x' specifier allows a 0x/0X prefix in input string

sem_getvalue.3

Michael Kerrisk [Andrea Galbusera]

Note that glibc's sem_getvalue() doesn't return EINVAL errors

See https://bugzilla.kernel.org/show_bug.cgi?id=204273

setlogmask.3

Michael Kerrisk

Note that LOG_UPTO() is included in the next POSIX release

shm_open.3

Michael Kerrisk

Add license to example programs

sincos.3

Michael Kerrisk

The glibc implementation does now give EDOM for a domain error

See https://www.sourceware.org/bugzilla/show_bug.cgi?id=15467

stdarg.3

Michael Kerrisk

SEE ALSO: add vprintf(3), vscanf(3), vsyslog(3)

streq.3

Michael Kerrisk

Add license to example programs

strftime.3

Urs Thuermann

ISO week number can be 52, add example

y0.3

Michael Kerrisk

These functions now correctly diagnose a pole error

https://sourceware.org/bugzilla/show_bug.cgi?id=6807

Michael Kerrisk

errno is now correctly set to ERANGE on underflow

https://www.sourceware.org/bugzilla/show_bug.cgi?id=6808

loop.4

Michael Kerrisk [Vlad]

'lo_flags' is nowadays "r/w"

See https://bugzilla.kernel.org/show_bug.cgi?id=203417

veth.4

Devin J. Pohly

Add a more direct example

iproute2 allows you to specify the netns for either side of a veth interface at creation time. Add an example of this to veth(4) so it doesn't sound like you have to move the interfaces in a separate step.

core.5

Michael Kerrisk [Jonny Grant]

Mention 'sysctl -w' as a way of changing core_pattern

setting

Michael Kerrisk [Jonny Grant]

Note that not dumping core of an unreadable binary is a security measure

Michael Kerrisk [Jonny Grant]

Explain that core_pattern %e is process/thread 'comm' value

The 'comm' value is typically the same as the (possibly truncated) executable name, but may be something different.

filesystems.5

Michael Kerrisk

SEE ALSO: add sysfs(5) and xfs(5)

locale.5

Michael Kerrisk [Helge Kreutzmann]

Improve description of 'first_weekday'

proc.5

Michael Kerrisk

Note kernel version for /proc/PID/smmaps VmFlags "wf" flag

Michael Kerrisk

Add "um" and "uw" to VmFlags in /proc/[pid]/smmaps

Michael Kerrisk

Add "mp" to VmFlags in /proc/[pid]/smmaps

Michael Kerrisk

Note kernel version that removed /proc/PID/smmaps VmFlags "nl" flag

Ian Rogers

Add "wf" to VmFlags in /proc/[pid]/smmaps

Michael Kerrisk

Note kernel version for /proc/PID/smmaps

VmFlags "dd" flag

Michael Kerrisk

Add "sf" to VmFlags in /proc/[pid]/smmaps

Michael Kerrisk [Kirill A. Shutemov]

Remove "mp" under VmFlags in /proc/[pid]/smmaps

Michael Kerrisk [Eric Hopper]

Alert the reader that UID/GID changes can reset the "dumpable" attribute

Keno Fischer

Fix an outdated note about map_files

The restriction to CAP_SYS_ADMIN was removed from map_files in 2015.

Michael Kerrisk [Helge Kreutzmann]

Better explanation of some /proc/ide fields

Michael Kerrisk

TASK_COMM_LEN limit includes the terminating '\0'

Clarify this detail in the discussion of /proc/[pid]/comm.

Michael Kerrisk

Add a detail to /proc/[pid]/comm

Note the connection to the "%e" specifier in
/proc/sys/kernel/core_pattern.

securetty.5

Michael Kerrisk [Helge Kreutzmann]

Improve wording of .SH one-line description

tzfile.5

Michael Kerrisk

Sync

to 2020a tzdb release

From <https://www.iana.org/time-zones>, version 2020a.

Michael Kerrisk

Explain UT abbreviation

ascii.7

Michael Kerrisk [Helge Kreutzmann]

SEE ALSO: fix sort order in entries

bpf-helpers.7

Michael Kerrisk

Resync against kernel 5.7

cgroups.7

Marcus Gelderie

Mention cgroup.sane_behavior file

The cgroup.sane_behavior file returns the hard-coded value "0" and
is kept for legacy purposes. Mention this in the man-page.

Michael Kerrisk

Note the existence of the clone3() CLONE_INTO_CGROUP flag

credentials.7

Michael Kerrisk

Alert reader that UID/GID changes can affect process capabilities

Michael Kerrisk

Changes to process UIDs/GIDs can effect the "dumpable" attribute

Michael Kerrisk

Add a list of the APIs that change a process's credentials

fanotify.7

Amir Goldstein [Jan Kara, Matthew Bobrowski]

Fix fanotify_fid.c example

Michael Kerrisk

Wrap some long lines in example program

fanotify.7

fanotify_mark.2

Amir Goldstein [Matthew Bobrowski]

Clarify FAN_ONDIR in output mask

FAN_ONDIR was an input only flag before introducing

FAN_REPORT_FID. Since the introduction of FAN_REPORT_FID, it can

also be in output mask.

hier.7

Thomas Piekarski [Gary Perkins]

Updating from FHS 2.3 to 3.0

See https://bugzilla.kernel.org/show_bug.cgi?id=206693

inotify.7

Michael Kerrisk [Jason Etherton]

Add missing #include in example program

ip.7

Michael Kerrisk [Martin Doucha]

Note a few more valid 'protocol' values

See https://bugzilla.kernel.org/show_bug.cgi?id=204981

Michael Kerrisk

SEE ALSO: add netdevice(7)

man-pages.7

Michael Kerrisk

Rename EXAMPLE to EXAMPLES

Michael Kerrisk

Describe COPYRIGHT section

man-pages doesn't use COPYRIGHT sections in manual pages,

but

various projects do. Make some recommendations about placement of the section.

Michael Kerrisk

Add REPORTING BUGS section

man-pages doesn't have a REPORTING BUGS section in manual pages,

but many other projects do. Make some recommendations about placement of that section.

Michael Kerrisk

Mention AUTHORS in summary section list

Although man-pages doesn't use AUTHORS sections, many projects do use an AUTHORS section in their manual pages, so mention it in man-pages to suggest some guidance on the position at which to place that section.

mount_namespaces.7

Michael Kerrisk

SEE ALSO: add mount(8), umount(8)

namespaces.7

Michael Kerrisk

Document /proc/sys/user/max_time_namespaces

netlink.7

Michael Kerrisk [Idan Katz]

Update path for NETLINK_CONNECTOR docs in kernel source tree

Michael Kerrisk [Fabien Siron]

Note that NETLINK_SOCKET_DIAG is preferred over NETLINK_INET_DIAG

pid_namespaces.7

Michael Kerrisk

Note that /proc/sys/kernel/ns_last_pid is virtualized per PID NS

Michael Kerrisk

Correct capability requirements for write to /proc/sys/kernel/ns_last_pid

CAP_SYS_ADMIN is needed in the user NS that owns the PID NS.

rtnetlink.7

Jan Moskyto Matejka [Michael Kerrisk]

Add missing RTA_* attributes

standards.7

Michael Kerrisk [Geoff Clare]

Add some more standards

Add: SUSv4 2016 edition, POSIX.1-2017, and SUSv4 2018 edition

Michael Kerrisk

Remove mention of bogus "POSIX" names

The terms POSIX.1-{2003,2004,2013,2016} were inventions of my imagination, as confirmed by consulting Geoff Clare of

The Open Group. Remove these names.

symlink.7

Michael Kerrisk

Describe differences in the treatment of symlinks in the dirname

Describe differences in

the treatment of symlinks in the dirname

part of pathname.

tcp.7

Michael Kerrisk [vrafaeli@msn.com]

Update info on tcp_syn_retries default value

See https://bugzilla.kernel.org/show_bug.cgi?id=202885.

user_namespaces.7

Michael Kerrisk [Léo Stefanescu]

Clarify that "system time" means "calendar time"

xattr.7

Achilles Gaikwad

Add attr(1) as relevant page to SEE ALSO

ldconfig.8

Florian Weimer

Mention new default for --format in glibc 2.32

zdump.8

Michael Kerrisk [Marco Curreli, Paul Eggert]

Update to latest upstream tz release

Look under "Latest version", which is 2020a.

==== Changes in man-pages-5.08 =====

Released: 2020-08-13, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets in the changelog below) reports, notes, and ideas that have been incorporated in changes in this release:

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Apologies if I missed anyone!

Newly documented interfaces in existing pages

prctl.2

Dave Martin

Add SVE prctls (arm64)

Add documentation for the PR_SVE_SET_VL and PR_SVE_GET_VL prctls added in Linux 4.15 for arm64.

Dave Martin [Catalin Marinas]

Add tagged address ABI control prctls (arm64)

Add documentation for the PR_SET_TAGGED_ADDR_CTRL and PR_GET_TAGGED_ADDR_CTRL prctls added in Linux 5.4 for arm64.

setns.2

Michael Kerrisk

Document the use of PID file descriptors with setns()

Starting with Linux 5.8, setns() can take a PID file descriptor as an argument, and move the caller

into or more of the namespaces of the thread referred to by that descriptor.

capabilities.7

Michael Kerrisk

Document CAP_BPF
Michael Kerrisk
Add CAP_PERFMON

symlink.7

Aleksa Sarai
Document magic links more completely

Global changes

A few pages

Michael Kerrisk
Use `\`` rather than ```
`\`` produces better rendering in PDF.

Various pages

Michael Kerrisk [Geoff Clare]
Use `"\(\ti"` instead of `"~"`
A naked tilde (`"~"`) renders poorly in PDF. Instead use `"\(\ti"`, which renders better in a PDF, and produces the same glyph when rendering on a terminal.

Various pages

Michael Kerrisk [Geoff Clare]
Use `"\(\ha"` rather than `"^"` in code
This renders better in PDF.

Various pages

Mike Frysinger
Drop `"coding: UTF-8"` header
This header is used inconsistently -- man pages are UTF-8 encoded but not setting this marker.
It's only respected by the `man-db` package, and seems a bit anachronistic at this point when UTF-8 is the standard default nowadays.

Various pages

Mike Frysinger
Trim leading blank comment line
Very few pages do this, so trim them.

Various pages

Mike Frysinger
Use standard `.\`` comment style
The `\`` comment produces blank lines. Use the `.\`` that the vast majority of the codebase uses instead.

Various pages

Mike Frysinger [G. Branden Robinson]

Various pages: Drop t comment header

Historically, a comment of the following form at the top of a manual page was used to indicate too man(1) that the use of tbl(1) was required in order to process tables:

```
" t
```

However, at least as far back as 2001 (according to Branden), man-db's man(1) automatically uses tbl(1) as needed, rendering this comment unnecessary.

And indeed many existing pages in

man-pages that have tables don't have this comment at the top of the file. So, drop the comment from those files where it is present.

Changes to individual pages

ioctl_tty.2

Michael Kerrisk

Fix a confusing wording error in description of TIOCSPTLCK

iopl.2

Thomas Piekarski [victorm007@yahoo.com]

Updating description of permissions and disabling interrupts
Update description of permissions for port-mapped I/O set per-thread and not per-process. Mention that iopl() can not disable interrupts since Linux 5.5 anymore and is in general deprecated and only provided for legacy X servers.

See https://bugzilla.kernel.org/show_bug.cgi?id=205317

keyctl.2

Oleksandr Kravchuk

Declare auth_key to fix a compilation error in example code

lseek.2

Andrew Price

List gfs2 support for SEEK_HOLE/SEEK_DATA

mount.2

Michael Kerrisk

ERRORS: add EINVAL for bind mount of mount namespace inode

open.2

Michael Kerrisk

Say a bit more about what happens when 'mode' is wrongly omitted

pidfd_open.2

Michael Kerrisk

Add the setns(2) use case for PID file descriptors

Michael Kerrisk

Close the pidfd in EXAMPLE

Close the PID file descriptor in the example program, to hint to the reader that like every other kind of file descriptor, a PID FD should be closed.

prctl.2

Michael Kerrisk

The parent death signal is cleared on some credential changes

See kernel/cred.c::commit_creds() in the Linux 5.6 source code.

seccomp.2

Andy Lutomirski

Improve x32 and nr truncation notes

send.2

recv.2

Alyssa Ross

Add msg_iovlen POSIX note

msg_iovlen is incorrectly typed (according to POSIX) in addition to msg_controllen, but unlike msg_controllen, this wasn't mentioned for msg_iovlen.

setns.2

Michael Kerrisk

EXAMPLE: use O_CLOEXEC when opening namespace file descriptor

Michael Kerrisk

It is possible to setns() to the caller's current PID namespace

The page currently incorrectly says that 'fd' must refer to a descendant PID namespace. However, 'fd' can also refer to the caller's current PID namespace. Verified by experiment, and also comments in kernel/pid_namespace.c (Linux 5.8-rc1).

sync.2

Jeff Layton

syncfs() now returns errors if writeback fails

A patch has been merged for v5.8 that changes how syncfs() reports errors. Change the sync() manpage accordingly.

syscalls.2

Michael Kerrisk

Add `faccessat2()`, added in Linux 5.8

sysctl.2

Michael Kerrisk

glibc removed support for `sysctl()` starting in version 2.32

atoi.3

Arkadiusz Drabczyk

Explain disadvantages of `atoi()`

Michael Kerrisk

Relocate BUGS section

Michael Kerrisk

Add NOTES section explaining 0 return value on error

And note that this is not specified by POSIX.

fread.3

Arkadiusz Drabczyk

Add example

Arkadiusz Drabczyk

Explain that file position is moved after calling `fread()/fwrite()`

Corresponding manpage on FreeBSD already contains that information.

getpt.3

posix_openpt.3

pts.4

Michael Kerrisk

Use the term "pseudoterminal multiplexor device" for `/dev/ptmx`

Let's use some consistent terminology for this device.

posix_memalign.3

Bruno Haible

Clarify how to free the result of `posix_memalign`

pthread_rwlockattr_setkind_np.3

Carlos O'Donnell [Kumar Kartikeya Dwivedi]

Clarify a `PTHREAD_RWLOCK_PREFER_WRITER_NP` detail

queue.3

Alejandro Colomar

Remove wrong code from example

Alejandro Colomar

Comment out text for functions not in glibc (related: 6559169cac)

pts.4

Michael Kerrisk

Remove NOTES on BSD pseudoterminals

This information is already covered better in `pty(7)`. No need to

mention it again here.

hosts.5

Thomas Bartelsmeier

Clarify capability for IPv6 outside of examples

Resolves https://bugzilla.kernel.org/show_bug.cgi?id=208279

proc.5

Jakub Wilk

Use "pwd -P" for printing cwd

"/bin/pwd" happens to work with the GNU coreutils implementation, which has -P as the default, contrary to POSIX requirements.

Use "pwd -P" instead, which is shorter, easier to type, and should work everywhere.

Arkadiusz Drabczyk

Inform that comm in /proc/pid/{stat,status} might also be truncated

pgrep for example searches for a process name in /proc/pid/status

resolv.conf.5

Michael Kerrisk [Helge Kreutzmann]

Clarify that ip6-bytestring was removed in 2.25

capabilities.7

Dan Kenigsberg

Clarify

that CAP_SYS_NICE relates to *lowering* the nice value

Saikiran Madugula

CAP_SYS_RESOURCE: add two more items for POSIX message queues

CAP_SYS_RESOURCE also allows overriding /proc/sys/fs/mqueue/msg_max and /proc/sys/fs/mqueue/msgsize_max.

Michael Kerrisk [Dan Kenigsberg]

Clarify wording around increasing process nice value

Michael Kerrisk

SEE ALSO: add getpcaps(8)

cgroups.7

cpuset.7

Sven Hoexter

Update kernel cgroup documentation references

cgroups-v1/v2 documentation got moved to the "admin-guide" subfolder and converted from .txt files to .rst

ip.7

Michael Kerrisk [Stephen Hemminger]

Remove mention of ipfw(4) which was in long obsolete ipchains project

man-pages.7

Michael Kerrisk

Add some notes on generating optimal glyphs
Getting nice renderings of ^ ` and ~ requires special
steps in the page source.

pty.7

Michael Kerrisk

Explicitly mention CONFIG_LEGACY_PTYS
Explicitly mention CONFIG_LEGACY_PTYS, and note that it is disabled
by default since Linux 2.6.30.

Michael Kerrisk

Relocate a paragraph to NOTES

standards.7

Michael Kerrisk

Add an entry for POSIX.1-1988

Michael Kerrisk [Geoff Clare]

Correct various details in the explanation of XPG/POSIX/SUS

ld.so.8

Florian Weimer [Michael Kerrisk]

List more places in which dynamic string tokens are expanded
This happens for more than just DT_RPATH/DT_RUNPATH.

Arkadiusz Drabczyk

Explain that empty entry in LD_LIBRARY_PATH means cwd

zic.8

Michael Kerrisk

Sync to 2020a tzdb release

From <https://www.iana.org/time-zones>, version 2020a.

==== Changes in man-pages-5.09 =====

Released: 2020-11-01, Munich

Contributors

The following people contributed patches/fixes or (noted in brackets
in the changelog
below) reports, notes, and ideas that have been
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Apologies if I missed anyone!

New and rewritten pages

circleq.3

Alejandro Colomar

New page with 'circleq' content extracted from queue(3)

list.3

Alejandro Colomar

New page with 'list' content extracted from queue(3)

pthread_attr_setsigmask_np.3

Michael Kerrisk

New page for pthread_attr_setsigmask_np() + pthread_attr_getsigmask_np()

Add a page documenting the pthread_attr_setsigmask_np(3) and pthread_attr_getsigmask_np(3) functions added in glibc 2.32.

slist.3

Alejandro Colomar

New page with 'slist' content extracted from queue(3)

stailq.3

Alejandro Colomar

New page with 'stailq' content extracted from queue(3)

tailq.3

Alejandro Colomar

New page with 'tailq' content extracted from queue(3)

system_data_types.7

Alejandro Colomar, Michael Kerrisk

A new page documenting a wide range of system data types.

kernel_lockdown.7

David Howells, Heinrich Schuchardt [Michael Kerrisk]

New page documenting the Kernel Lockdown feature

queue.7

Alejandro Colomar

Create summary page for 'queue' APIs

The former queue(3) page was rather unwieldy, as it attempted to describe too many APIs. After splitting that content out into a number of smaller pages (circleq.3, list.3, slist.3, stailq.3, and

tailq.3) move the much-reduced queue(3) page, which is now essentially a summary of those APIs, from Section 3 to Section 7.

Newly documented interfaces in existing pages

fanotify_init.2

fanotify.7

Amir Goldstein [Jan Kara, Matthew Bobrowski]
Document FAN_REPORT_DIR_FID

fanotify_init.2

fanotify.7

Amir Goldstein [Jan Kara, Matthew Bobrowski]
Document FAN_REPORT_NAME

statx.2

Ira Weiny

Add STATX_ATTR_DAX

strerror.3

Michael Kerrisk

Document strerrorname_np() and strerrordesc_np()
strerrorname_np() and strerrordesc_np() were added in glibc 2.32.

strsignal.3

Michael Kerrisk

Document sigabbrev_np() and sigdescr_np().
sigabbrev_np() and sigdescr_np() were added in glibc 2.32.

loop.4

Yang Xu

Document LOOP_CONFIGURE ioctl

Yang Xu

Document LO_FLAGS_DIRECT_IO flag

capabilities.7

Michael Kerrisk

Document the CAP_CHECKPOINT_RESTORE
capability added in Linux 5.9

ip.7

Stephen Smalley [Paul Moore]

Document IP_PASSESEC for UDP sockets

ip.7

socket.7

Stephen Smalley

Document SO_PEERSEC for AF_INET sockets

Sridhar Samudrala

Document SO_INCOMING_NAPI_ID

socket.7

unix.7

Stephen Smalley [Serge Hallyn, Simon McVittie]

Add initial description for SO_PEERSEC

New and changed links

aiocb.3

clock_t.3

clockid_t.3

dev_t.3

div_t.3

double_t.3

fenv_t.3

fexcept_t.3

FILE.3

float_t.3

gid_t.3

id_t.3

imaxdiv_t.3

int8_t.3

int16_t.3

int32_t.3

int64_t.3

intN_t.3

intmax_t.3

intptr_t.3

lconv.3

ldiv_t.3

lldiv_t.3

off_t.3

pid_t.3

ptrdiff_t.3

regex_t.3

regmatch_t.3

regoff_t.3

siginfo_t.3

sigset_t.3

sigval.3

size_t.3

ssize_t.3

suseconds_t.3

time_t.3

timer_t.3

timespec.3

timeval.3

uid_t.3

uint8_t.3
uint16_t.3
uint32_t.3
uint64_t.3
uintN_t.3
uintptr_t.3
va_list.3
void.3

Alejandro Colomar, Michael Kerrisk
New links to system_data_types(7)

CIRCLEQ_ENTRY.3
CIRCLEQ_HEAD.3
CIRCLEQ_INIT.3
CIRCLEQ_INSERT_AFTER.3
CIRCLEQ_INSERT_BEFORE.3
CIRCLEQ_INSERT_HEAD.3
CIRCLEQ_INSERT_TAIL.3
CIRCLEQ_REMOVE.3

Alejandro Colomar
Link to the new circleq(3) page instead of queue(3)

LIST_EMPTY.3
LIST_ENTRY.3
LIST_FIRST.3
LIST_FOREACH.3
LIST_HEAD.3
LIST_HEAD_INITIALIZER.3
LIST_INIT.3
LIST_INSERT_AFTER.3
LIST_INSERT_BEFORE.3
LIST_INSERT_HEAD.3
LIST_NEXT.3
LIST_REMOVE.3

Alejandro Colomar
Link to the new list.3 page instead of queue.3

SLIST_EMPTY.3
SLIST_ENTRY.3
SLIST_FIRST.3
SLIST_FOREACH.3
SLIST_HEAD.3
SLIST_HEAD_INITIALIZER.3
SLIST_INIT.3
SLIST_INSERT_AFTER.3
SLIST_INSERT_HEAD.3
SLIST_NEXT.3
SLIST_REMOVE.3

SLIST_REMOVE_HEAD.3

Alejandro Colomar

[Link to the new slist\(3\) page instead of queue\(3\)](#)

STAILQ_CONCAT.3

STAILQ_EMPTY.3

STAILQ_ENTRY.3

STAILQ_FIRST.3

STAILQ_FOREACH.3

STAILQ_HEAD.3

STAILQ_HEAD_INITIALIZER.3

STAILQ_INIT.3

STAILQ_INSERT_AFTER.3

STAILQ_INSERT_HEAD.3

STAILQ_INSERT_TAIL.3

STAILQ_NEXT.3

STAILQ_REMOVE.3

STAILQ_REMOVE_HEAD.3

Alejandro Colomar

[Link to the new stailq\(3\) page instead of queue\(3\)](#)

TAILQ_CONCAT.3

TAILQ_EMPTY.3

TAILQ_ENTRY.3

TAILQ_FIRST.3

TAILQ_FOREACH.3

TAILQ_FOREACH_REVERSE.3

TAILQ_HEAD.3

TAILQ_HEAD_INITIALIZER.3

TAILQ_INIT.3

TAILQ_INSERT_AFTER.3

TAILQ_INSERT_BEFORE.3

TAILQ_INSERT_HEAD.3

TAILQ_INSERT_TAIL.3

TAILQ_LAST.3

TAILQ_NEXT.3

TAILQ_PREV.3

TAILQ_REMOVE.3

TAILQ_SWAP.3

Alejandro Colomar

[Link to the new tailq\(3\) page instead of queue\(3\)](#)

getcwd.2

mq_notify.2

mq_open.2

mq_timedreceive.2

mq_timedsend.2

mq_unlink.2

Michael Kerrisk

Reinstate links to section 3 pages that document system calls
Some of the links removed in commit 247c654385128fd0748 should
have been kept, because in some cases there are real system
calls whose wrapper functions are documented in Section 3.

queue.3

Alejandro Colomar

Link to queue(7)

sigabbrev_np.3

Michael Kerrisk

New link to strsignal.3

sigdescr_np.3

Michael Kerrisk

New link to strsignal.3

strerrordesc_np.3

Michael Kerrisk

New link to strerror(3)

strerrorname_np.3

Michael Kerrisk

New link to strerror(3)

sys_siglist.3

Michael Kerrisk

New link to strsignal(3)

Global changes

Various pages

Alejandro Colomar

Use `sizeof` consistently through all the examples in the
following way:

- Use the name of the variable instead of its type as argument for
`sizeof`.

Various pages

Alejandro Colomar

Use `sizeof()` to get buffer size (instead of hardcoding macro name)

Various pages

Michael Kerrisk

Use `\(aq` instead of `'` inside monospace fonts

Use `\(aq` to get an unslanted single quote inside monospace code blocks. Using a simple `'` results in a slanted quote inside PDFs.

Various pages

Michael Kerrisk, Alejandro Colomar

Use C99 style to declare loop counter

variables

Rather than:

```
sometype x;
```

```
for (x = ....; ...)
```

use

```
for (sometype x = ...; ...)
```

This brings the declaration and use closer together (thus aiding readability) and also clearly indicates the scope of the loop counter variable.

Various pages

Alejandro Colomar

Switch `printf()` casts to use `[u]intmax_t + %ju / %jd`

Let's move to the 21st century. Instead of casting system data types to `long/long long/etc.` in `printf()` calls, instead cast to `intmax_t` or `uintmax_t`, the largest available signed/unsigned integer types.

Various pages

Alejandro Colomar

Omit `'int'` keyword for `'short'`, `'long'` and `'long long'` types

Various pages

Alejandro Colomar

Remove unneeded casts

Various pages

Alejandro Colomar

In `printf()`: `s/0x%/ %#/` except when followed by `X` instead of `x`

Use `printf()`'s

`#` flag character to prepend the string `"0x"`.

However, when the number is printed in uppercase, and the prefix is in lowercase, the string `"0x"` needs to be manually written.

Various pages

Michael Kerrisk

Use C99-style declarations for readability

Rather than writing things such as:

```
struct sometype *x;  
...  
x = malloc(sizeof(*x));
```

let's use C99 style so that the type info is in the same line as
the allocation:

```
struct sometype *x = malloc(sizeof(*x));
```

Various pages

Alejandro Colomar

Cast to 'unsigned long' rather than 'long' when printing with "%lx"

stdarg.3

Alejandro Colomar

Declare variables with different types in different lines

In particular, don't mix a variable and a pointer declaration
on the same line: TYPE x, *p;

Changes to individual pages

memusage.1

Michael Kerrisk

EXAMPLES: remove doubled calculations

The same calculations are repeated in malloc() and printf() calls.

For better readability, do the calculations once.

Michael Kerrisk

Use %zu rather than %zd when printing 'size_t' values

clock_getres.2

Alejandro Colomar

EXAMPLES: use 'const' when appropriate

Alejandro Colomar [Jakub Wilk]

Cast 'time_t' to 'int' for printf() and fix the length modifiers

Michael Kerrisk [Tony May]

Fix type and variable name in dynamic clock code example

clone.2

Michael Kerrisk

CAP_CHECKPOINT_RESTORE can now be used to employ 'set_tid'

epoll_ctl.2

Michael Kerrisk

epoll instances can be nested to a maximum depth of 5

This limit appears to be an off-by-one count against
EP_MAX_NESTS (4).

Michael Kerrisk

Move some version info from CONFORMING TO to VERSIONS

eventfd.2

Alejandro Colomar

Use 'PRIxN' macros when printing
C99 fixed-width integer types

futex.2

Alejandro Colomar

Use appropriate types

getdents.2

Alejandro Colomar

SYNOPSIS: add missing header and feature test macro

intro.2

intro.3

credentials.7

feature_test_macros.7

standards.7

Michael Kerrisk

SEE ALSO: add system_data_types(7)

ioctl_ns.2

stat.2

Alejandro Colomar [Konstantin Bukin]

Fix signedness of printf specifiers

membarrier.2

Alejandro Colomar

Note that glibc does not provide a wrapper

mprotect.2

Alejandro Colomar

Use "%p" rather than casting to 'long' when printing pointer values

mq_getsetattr.2

Alejandro Colomar

Use 'const' when appropriate

msgop.2

Yang Xu

Add restriction on ENOSYS error

open.2

Michael Kerrisk [henrik@optoscale.no]

ERRORS: add EBUSY

openat.2

Alejandro Colomar

SYNOPSIS: return long

The Linux kernel uses long as the return type for this syscall.

As glibc provides

no wrapper, use the same type the kernel uses.

open_by_handle_at.2

Alejandro Colomar

Use "%u" rather than "%d" when printing 'unsigned int' values

perf_event_open.2

Alexey Budankov

Update the man page with CAP_PERFMON related information

recv.2

send.2

Michael Kerrisk

Add cross references to pages with further info about ancillary data

sched_getattr.2

Aleksa Sarai

Update to include changed size semantics

seccomp.2

Michael Kerrisk [Jann Horn]

Warn reader that SECCOMP_RET_TRACE can be overridden

Highlight to the reader that if another filter returns a

higher-precedence action value, then the ptracer will not

be notified.

Michael Kerrisk [Rich Felker]

Warn against the use of SECCOMP_RET_KILL_THREAD

Killing a thread with SECCOMP_RET_KILL_THREAD is very likely

to leave the rest of the process in a broken state.

Michael Kerrisk [Rich Felker]

EXAMPLES: use SECCOMP_RET_KILL_PROCESS rather than SECCOMP_RET_KILL

Alejandro Colomar

Use ARRAY_SIZE() macro instead of raw sizeof division

setns.2

Michael Kerrisk

Correct the version for time namespace support

sigaction.2

Michael Kerrisk [Alejandro Colomar]

Use correct POSIX type for `siginfo_t.si_value`

syscalls.2

Michael Kerrisk

Move system calls from discontinued ports out of main syscall list

Various ports that had their own indigenous system calls have been discontinued. Remove those system calls (none of which had manual pages!) to a separate part of the page, to avoid cluttering the main list of system calls.

Michael Kerrisk

Add `close_range` (Linux 5.9)

timerfd_create.2

Alejandro Colomar

Use 'PRIxN' macros when printing C99 fixed-width integer types

userfaultfd.2

Michael Kerrisk

Use a better type (`uint64_t`) for 'len' in EXAMPLES

Alejandro

Colomar

Use 'PRIx64' rather than "%llx" when printing 64-bit fixed-width types

argz_add.3

envz_add.3

Michael Kerrisk [Jonny Grant]

Point out that 'error_t' is an integer type

bsearch.3

Alejandro Colomar

Fix intermediate type and remove unneeded casts

bswap.3

Jakub Wilk

Use `strtoull()` for parsing 64-bit numbers

dlopen.3

Michael Kerrisk

Clarify `DT_RUNPATH/DT_RPATH` details

It is the `DT_RUNPATH/DT_RPATH` of the calling object (not the executable) that is relevant for the library search. Verified by experiment.

errno.3

Michael Kerrisk [Alejandro Colomar]

Note that the pthreads APIs do not set errno

fopencookie.3

Alejandro Colomar

printf()'s .* expects an int; cast accordingly

Alejandro Colomar

Fix bugs in example

fread.3

Alejandro Colomar

Move ARRAY_SIZE logic into macro

freeaddrinfo.3

Marko Hrastovec

Fix memory leaks in freeaddrinfo()

examples

getline.3

Alejandro Colomar

Use %zd rather than %zu when printing 'ssize_t' values

lseek64.3

Michael Kerrisk

Since glibc 2.28, the 'llseek' symbol is no longer available

mallinfo.3

Michael Kerrisk

The 'usmblks' field is nowadays always 0

offsetof.3

Alejandro Colomar

Use "%zu" rather than "%zd" when printing 'size_t' values

perror.3

Michael Kerrisk

sys_errlist and sys_nerr are no longer exposed by <stdio.h>

The change came with the release of glibc 2.32.

posix_fallocate.3

Érico Rolim

Add EOPNOTSUPP error code.

psignal.3

strsignal.3

Michael Kerrisk

Consolidate information on 'sys_siglist' in one page (strsignal(3))

pthread_attr_init.3

Michael Kerrisk

SEE ALSO: add pthread_attr_init(3)

pthread_attr_init.3

pthread_create.3

pthread_getattr_np.3

Michael Kerrisk

Use correct type (size_t) for some variables

pthread_getattr_np.3

Alejandro Colomar

Use "%zu" and "%zx" when printing 'size_t' values

pthread_sigmask.3

Michael Kerrisk

SEE ALSO: add pthread_attr_setsigmask_np(3)

qsort.3

Alejandro Colomar

Fix casts

Alejandro Colomar

SYNOPSIS: move code from queue.3 to stailq.3

regex.3

Alejandro Colomar

Add example program

Alejandro Colomar

Remove unnecessary include

strsignal.3

Michael Kerrisk [Hauke Fath]

Note that starting with v2.32, glibc no longer exports 'sys_siglist'

Michael Kerrisk

Further addition on version range for sys_siglist

Michael Kerrisk

Note that 'sys_siglist' is nonstandard

strtod.3

Jonathan Wakely

Fix return value for underflow

strtol.3

Alejandro Colomar

EXAMPLES: simplify errno checking

Alejandro Colomar

EXAMPLES: as the default base, use special value 0

Alejandro Colomar

EXAMPLES: delimit output string using ""

tsearch.3

Alejandro Colomar

Simplify

type usage and remove unneeded casts

Alejandro Colomar

Use size_t for malloc() argument

loop.4

Yang Xu

Add some details about lo_flags

core.5

Alejandro Colomar

Use adequate type

locale.5

Florian Weimer

Decimal points, thousands separators must be one character

proc.5

Michael Kerrisk

Update capability requirements for accessing /proc/[pid]/map_files

Jann Horn [Mark Mossberg]

Document inaccurate RSS due to SPLIT_RSS_COUNTING

Michael Kerrisk

Note "open file description" as (better) synonym for "file handle"

resolv.5

Florian Weimer

Document the trust-ad option

aio.7

Alejandro Colomar

Use perror() directly

bpf-helpers.7

Michael Kerrisk [Jakub Wilk]

Resync with current kernel source

capabilities.7

Michael Kerrisk

Under CAP_SYS_ADMIN, group "sub-capabilities" together

CAP_BPF, CAP_PERFMON, and CAP_CHECKPOINT_RESTORE have all been

added to split out the power of CAP_SYS_ADMIN into weaker pieces.

Group all of these capabilities together in the list under

CAP_SYS_ADMIN, to make it clear that there is a pattern to these

capabilities.

Michael Kerrisk

CAP_SYS_ADMIN implies CAP_CHECKPOINT_RESTORE

But the latter, weaker capability is preferred.

Michael Kerrisk

Add kernel doc reference for CAP_PERFMON

fanotify.7

Alejandro Colomar

Pass array to read(2) directly instead of a pointer to it

fanotify.7

fanotify_mark.2

Amir Goldstein [Jan Kara, Matthew Bobrowski]

Generalize documentation of FAN_REPORT_FID

feature_test_macros.7

Jakub Wilk

Update list of macros that inhibit default definitions

man.7

Michael Kerrisk [G. Branden Robinson]

Clarify that alternating typeface macros print arguments without spaces

man-pages.7

Michael Kerrisk

Add some more requests re code examples

Michael Kerrisk

Soften the statement that ideal programs should be short

namespaces.7

Michael Kerrisk

A 'time_for_children' symlink can also pin a namespace

pid_namespaces.7

Michael Kerrisk

Update capability requirements for /proc/sys/kernel/ns_last_pid

pthread.7

Michael Kerrisk

Explicitly note that pthread APIs return an errno-style value on error

rtld-audit.7

Florian Weimer [Carlos O'Donell]

Clarify la_version handshake

Returning its argument without further checks is almost always wrong for la_version.

Alejandro Colomar

Use "%u" rather than "%d" when printing 'unsigned int' values

sigevent.7

Michael Kerrisk

Note that 'sigev_notify_thread_id' is Linux-specific

socket.7

Michael Kerrisk

SEE ALSO: add ipv6(7)

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POSIX PAGES

This package used to contains a copy of the POSIX 1003.1-2003
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THE PAGES

These pages are most of the section 2, 3, 4, 5, 7 man pages for Linux. A few pages are provided in sections 1 and 8 for commands that are not documented in other packages, and there are a few pages in sections 5 and 8 for the timezone utilities.

[The timezone pages were taken from
<ftp://elsie.nci.nih.gov/pub/tzcode2001a.tar.gz>.]

[The section 3 man pages for the db routines have been taken from
<ftp://ftp.terra.net/pub/sleepycat/db.1.86.tar.gz>.]

[The rpc man pages were taken from the 4.4BSD-Lite
CDROM.]

Here is a breakdown of what this distribution contains:

- Section 1 = user commands (intro, plus a few other pages)
- Section 2 = system calls
- Section 3 = libc calls
- Section 4 = devices (e.g., hd, sd)
- Section 5 = file formats and configuration files (e.g., wtmp, /etc/passwd)
- Section 6 = games (intro only)
- Section 7 = overviews, conventions, macro packages, etc.
- Section 8 = system administration (intro, plus a few other pages)

This package contains no, or very few, section 1, 6, and 8 man pages because these should be distributed with the binaries they are written for. Sometimes Section 9 is used for man pages describing parts of the kernel.

Note that only Section 2 is rather complete, but Section 3 contains several hundred man pages. If you want to write some man pages, or suggest improvements to existing pages, please visit <http://www.kernel.org/doc/man-pages/>.

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.b\" \" commit ac9721f3f54b27a16c7e1afb2481e7ee95a70318'
.b\" \" commit e5d1367f17ba6a6fed5fd8b74e4d5720923e0c25'
.b\" \" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b\" \" commit 2e80a82a49c4c7eca4e35734380f28298ba5db19'
.b\" \" commit 65074d43fc77bcae32776724b7fa2696923c78e4'
.b\" \" commit e12f03d7031a977356e3d7b75a68c2185ff8d155'
.b\" \" commit 33ea4b24277b06dbc55d7f5772a46f029600255e'
.b\" \" commit cb5d76999029ae7a517cb07dfa732c1b5a934fc2'
.b\" \" this was added much later when PERF_ATTR_SIZE_VER2 happened'
.b\" \" but the actual attr_size had increased in 2.6.33'
.b\" \" commit cb5d76999029ae7a517cb07dfa732c1b5a934fc2'
.b\" \" commit 1659d129ed014b715b0b2120e6fd929bdd33ed03'
.b\" \"
commit 60e2364e60e86e81bc6377f49779779e6120977f'
.b\" \" commit 1a5941312414c71dece6717da9a0fa1303127afa'
.b\" \" commit f287d332ce835f77a4f5077d2c0ef1e3f9ea42d2'
.b\" \" commit 8f62242246351b5a4bc0c1f00c0c7003edea128a'
.b\" \" commit 8f62242246351b5a4bc0c1f00c0c7003edea128a'
.b\" \" commit c37e17497e01fc0f5d2d6feb5723b210b3ab8890'
.b\" \" commit e49a5bd38159dfb1928fd25b173bc9de4bbadb21'

.b" commit f7d7986060b2890fc26db6ab5203efbd33aa2497'
.b" commit f7d7986060b2890fc26db6ab5203efbd33aa2497'
.b" commit fa0097ee690693006ab1aea6c01ad3c851b65c77'
.b" commit 89d6c0b5bdbb1927775584dcf532d98b3efe1477'
.b" commit bce38cd53e5ddba9cb6d708c4ef3d04a4016ec7e'
.b" commit 4018994f3d8785275ef0e7391b75c3462c029e56'
.b" commit c5ebcedb566ef17bda7b02686e0d658a7bb42ee7'
.b" commit c3feedf2aaf9ac8bad6f19f5d21e4ee0b4b87e9c'
.b" commit d6be9ad6c960f43800a6f118932bc8a5a4eadcd1'
.b" commit ff3d527cebc1fa3707c617bfe9e74f53fcfb0955'
.b" commit
fdfbbd07e91f8fe387140776f3fd94605f0c89e5'
.b" commit 60e2364e60e86e81bc6377f49779779e6120977f'
.b" commit fc7ce9c74c3ad232b084d80148654f926d01ece7'
.b" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b" commit ab608344bcbde4f55ec4cd911b686b0ce3eae076'
.b" commit 3af9e859281bda7eb7c20b51879cf43aa788ac2e'
.b" commit c980d1091810df13f21aabbce545fd98f545bbf7'
.b" commit a240f76165e6255384d4bdb8139895fac7988799'
.b" commit a240f76165e6255384d4bdb8139895fac7988799'
.b" commit d077526485d5c9b12fe85d0b2b3b7041e6bc5f91'
.b" commit d077526485d5c9b12fe85d0b2b3b7041e6bc5f91'
.b" commit 13d7a2410fa637f450a29ecb515ac318ee40c741'
.b" This is tricky; was committed during 3.12 development'
.b" but right before release was disabled.'
.b" So while you could select mmap2 starting with 3.12'
.b" it did not work until 3.16'
.b" commit a5a5ba72843dd05f991184d6cb9a4471acce1005'
.b" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b"
commit 34f439278cef7b1177f8ce24f9fc81dfc6221d3b'
.b" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b" commit 9ecda41acb971ebd07c8fb35faf24005c0baea12'
.b" commit e422267322cd319e2695a535e47c5b1feeac45eb'
.b" commit 76193a94522f1d4edf2447a536f3f796ce56343b'
.b" commit 6ee52e2a3fe4ea35520720736e6791df1fb67106'
.b" commit ab43762ef010967e4ccd53627f70a2eecbeafeb'
.b" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b" commit e17d43b93e544f5016c0251d2074c15568d5d963'
.b" commit f506b3dc0ec454a16d40cab9ee5d75435b39dc50'
.b" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b" commit a7e3ed1e470116c9d12c2f778431a481a6be8ab6'
.b" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b" commit a7e3ed1e470116c9d12c2f778431a481a6be8ab6'
.b" commit bce38cd53e5ddba9cb6d708c4ef3d04a4016ec7e'
.b" commit c229bf9dc179d2023e185c0f705bdf68484c1e73'

.b" commit c9fdfa14c3792c0160849c484e83aa57afd80ccc'
.b"
commit bac52139f0b7ab31330e98fd87fc5a2664951050'
.b" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b" commit 2c44b1936bb3b135a3fac8b3493394d42e51cf70'
.b" commit 4018994f3d8785275ef0e7391b75c3462c029e56'
.b" commit c5ebcedb566ef17bda7b02686e0d658a7bb42ee7'
.b" commit 34f439278cef7b1177f8ce24f9fc81dfc6221d3b'
.b" commit 1a5941312414c71dece6717da9a0fa1303127afa'
.b" commit 97c79a38cd454602645f0470ffb444b3b75ce574'
.b" commit c7206205d00ab375839bd6c7ddb247d600693c09'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit
e8c6deac69629c0cb97c3d3272f8631ef17f8f0f'
.b" commit e8c6deac69629c0cb97c3d3272f8631ef17f8f0f'
.b" commit 45bfb2e50471abbbfd83d40d28c986078b0d24ff'
.b" commit 39447b386c846bbf1c56f6403c5282837486200f'
.b" commit 39447b386c846bbf1c56f6403c5282837486200f'
.b" commit 2fe85427e3bf65d791700d065132772fc26e4d75'
.b" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b" commit 1676b8a077c352085d52578fb4f29350b58b6e74'
.b" commit 930e6fcd2bcce9bcd9d4aa7e755678d33f3fe6f4'
.b" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b" commit 71ef3c6b9d4665ee7afbbe4c208a98917dcfc32f'
.b" commit 68db7e98c3a6ebe7284b6cf14906ed7c55f3f7f0'
.b" commit 2023a0d2829e521fe6ad6b9907f3f90bfbf57142'
.b" ec0d7729bbaed4b9d2d3fada693278e13a3d1368'
.b" f38b0dbb491a6987e198aa6b428db8692a6480f8'
.b" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b"
commit e422267322cd319e2695a535e47c5b1feeac45eb'
.b" commit 76193a94522f1d4edf2447a536f3f796ce56343b'
.b" commit 6ee52e2a3fe4ea35520720736e6791df1fb67106'
.b" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b" commit e17d43b93e544f5016c0251d2074c15568d5d963'
.b" See <https://lkml.org/lkml/2011/5/24/337>
.b" commit 179033b3e064d2cd3f5f9945e76b0a0f0fbf4883'
.b" commit c7206205d00ab375839bd6c7ddb247d600693c09'

.b" 7911d3f7af14a614617e38245fedf98a724e46a9'
.b" commit 3581fe0ef37ce12ac7a4f74831168352ae848edc'
.b" commit bad7192b842c83e580747ca57104dd51fe08c223'
.b" commit ad0cf3478de8677f720ee06393b3147819568d6a'
.b" commit 6fb2915df7f0747d9044da9dbff5b46dc2e20830'
.b" commit cf4957f17f2a89984915ea808876d9c82225b862'
.b" commit 2541517c32be2531e0da59dfd7efc1ce844644f5'
.b" commit 86e7972f690c1017fd086cdf53d8524e68c661c'
.b" commit 32ff77e8cc9e66cc4fb38098f64fd54cc8f54573'
.b" commit f371b304f12e31fe30207c41ca7754564e0ea4dc'
.b"
.b"
default changed in commit 0161028b7c8aebef64194d3d73e43bc3b53b5c66'
.b" Introduced in c5dfd78eb79851e278b7973031b9ca363da87a7e'
.b" commit abe43400579d5de0078c2d3a760e6598e183f871'
.b" commit 0c9d42ed4cee2aa1dfc3a260b741baae8615744f'
.b" a66734297f78707ce39d756b656bfae861d53f62'
.b" 7911d3f7af14a614617e38245fedf98a724e46a9'
.b" commit 641cc938815dfd09f8fa1ec72deb814f0938ac33'
.b" commit 641cc938815dfd09f8fa1ec72deb814f0938ac33'
.b" commit 314d9f63f385096580e9e2a06eaa0745d92fe4ac'
.b" bed5b25ad9c8a2f5d735ef0bc746ec870c01c1b0'
.b" commit aa2bc1ade59003a379ffc485d6da2d92ea3370a6'
.b" 97c79a38cd454602645f0470ffb444b3b75ce574'
.b" commit a4e95fc2cbb31d70a65beffeaf8773f881328c34'
.b" commit 0793a61d4df8daeac6492dbf8d2f3e5713caae5e'
.b" commit cdd6c482c9ff9c55475ee7392ec8f672eddb7be6'
.b" commit ba0a6c9f6fceed11c6a99e8326f0477fe383e6b5'
.b" commit b690081d4d3f6a23541493f1682835c3cd5c54a1'
.b" FIXME
. cannot find a kernel commit for this one'
.b" commit 45e16a6834b6af098702e5ea6c9a40de42ff77d8'
.b" commit 38b435b16c36b0d863efcf3f07b34a6fac9873fd'
.b" commit 050735b08ca8a016bbace4445fa025b88fee770b'
.b" commit 4ec8363dfc1451f8c8f86825731fe712798ada02'
.b" commit 724b6daa13e100067c30cfc4d1ad06629609dc4e'
.b" commit fa7315871046b9a4c48627905691dbde57e51033'
.b" commit f287d332ce835f77a4f5077d2c0ef1e3f9ea42d2'

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/request_key.2

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/setxattr.2

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/errno.3

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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/vcs.4
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man1/localedef.1
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/tty.4
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/iso_8859-8.7
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/opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/ipc.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/passwd.5
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/sched_get_priority_max.2
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/getxattr.2
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*
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/inotify_init.2
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*
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/intro.4
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* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/protocols.5
* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/iso_8859-6.7

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/lio_listio.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/lp.4
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/s390_pci_mmio_write.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/unimplemented.2
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man2/cacheflush.2
 *
 /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man4/ttyS.4
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/ualarm.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/aio_cancel.3
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 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/updwtmp.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/crypt.3
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/sched.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man7/koi8-u.7
 * /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man3/hsearch.3
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Found in path(s):

* /opt/cola/permits/1243141268_1679935488.7842212/0/man-pages-5-10-tar-gz/man-pages-5.10/man5/filesystems.5

1.160 hashicorp-go-secure-stdlib-strutil 0.1.2

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1.164 scowl 2019.10.06-1

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- *
- /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/propagation/Format.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/propagation/TextMapExtractAdapter.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/Span.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/References.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/tag/AbstractTag.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/Scope.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/tag/BooleanTag.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/propagation/TextMapInject.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/propagation/TextMapInjectAdapter.java
- *
- /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/tag/Tag.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/propagation/TextMapAdapter.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/tag/IntTag.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/ScopeManager.java
- * /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-

jar/io/opentracing/propagation/Binary.java

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1.171 jackson-annotations 2.12.4

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1.173 simpleclient-pushgateway 0.6.0

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1.174 opentracing-util 0.33.0

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* /opt/cola/permits/1257211068_1642789583.52/0/opentracing-util-0-33-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java
* /opt/cola/permits/1257211068_1642789583.52/0/opentracing-util-0-33-0-sources-jar/io/opentracing/util/GlobalTracer.java

1.175 junrar 0.6

1.176 simpleclient-hotspot 0.6.0

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1.177 opentracing-noop 0.33.0

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* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpanContext.java
* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java
*
/opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopTracer.java
* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpan.java
* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java

1.178 opentracing-impl 0.16.0

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* /opt/cola/permits/1257211292_1642789679.88/0/opentracing-impl-0-16-0-sources-jar/io/opentracing/NoopSpan.java

* /opt/cola/permits/1257211292_1642789679.88/0/opentracing-impl-0-16-0-sources-jar/io/opentracing/propagation/Injector.java

*

*/opt/cola/permits/1257211292_1642789679.88/0/opentracing-impl-0-16-0-sources-jar/io/opentracing/NoopSpanBuilder.java

* /opt/cola/permits/1257211292_1642789679.88/0/opentracing-impl-0-16-0-sources-jar/io/opentracing/NoopTracer.java

1.179 opentracing-impl-java8 0.16.0

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jar/io/opentracing/AbstractSpan.java
* /opt/cola/permits/1257211203_1642789665.91/0/opentracing-impl-java8-0-16-0-sources-
jar/io/opentracing/TextMapInjectorImpl.java
* /opt/cola/permits/1257211203_1642789665.91/0/opentracing-impl-java8-0-16-0-sources-
jar/io/opentracing/AbstractTracer.java
*
/opt/cola/permits/1257211203_1642789665.91/0/opentracing-impl-java8-0-16-0-sources-
jar/io/opentracing/AbstractSpanBuilder.java
* /opt/cola/permits/1257211203_1642789665.91/0/opentracing-impl-java8-0-16-0-sources-
jar/io/opentracing/TextMapExtractorImpl.java

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1.180 geoip-api 1.2.10

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1.181 simpleclient 0.6.0

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1.182 jnr-constants 0.10.3

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* /opt/cola/permits/1257321049_1642800610.51/0/jnr-constants-0-10-3-sources-jar/jnr/constants/ConstantSet.java
* /opt/cola/permits/1257321049_1642800610.51/0/jnr-constants-0-10-3-sources-jar/jnr/constants/Constant.java
* /opt/cola/permits/1257321049_1642800610.51/0/jnr-constants-0-10-3-sources-
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1.183 jctools-core 3.3.0

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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java

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/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Preference.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/package-info.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Ordering.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MPMCUnboundedXaddChunk.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java

* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/RangeUtil.java

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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
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* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/NonBlockingHashMapLong.java
*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/Pow2.java
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1.184 mxparser 1.2.2

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* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-

jar/org/brotli/dec/BrotliRuntimeException.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/RunningState.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/BitReader.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Dictionary.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Context.java

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* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Utils.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Transform.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/Prefix.java

* /opt/cola/permits/1267541981_1644318477.12/0/dec-0-1-2-sources-jar/org/brotli/dec/WordTransformType.java

1.186 log4j-api 2.17.1

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1.187 log4j-jul 2.17.1

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1.188 netkit-telnet 0.17-42

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1.189 cyrus-sasl 2.1.27+dfsg-2.1+deb11u1

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1.190 jffi 1.3.9

1.191 hibernate-validator 7.0.2.Final

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* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml

* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-mapping-2.0.xsd

* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/META-INF/validation-mapping-1.0.xsd

* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/org/hibernate/validator/overview.html

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 */
/**
 * <p>
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * <p>
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * { @link jakarta.validation.ParameterNameProvider }. The default provider will
 * return
 * the actual parameter names, if the -parameters compiler option
 * has been enabled, and { @code arg0 }, { @code arg1 } etc. otherwise.
 * </p>
 * <p>
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 * </p>
 * <pre>
 * { @code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
 * public void createEvent(Date start, Date end) { ... }
 * }
 * </pre>
 * <p>
 * Can be specified on any method or constructor.
 * </p>
 *
 * @author Gunnar Morling
 */
```

Found in path(s):

```
* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
```

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* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/org/hibernate/validator/internal/util/TypeHelper.java

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*/
/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
*
* @param javaBeanExecutable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):

* /opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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*/opt/cola/permits/1285877281_1646964703.63/0/hibernate-validator-7-0-2-final-sources-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

1.192 bouncycastle-fips 1.0.2.3

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1.193 sysv-init 2.96-7+deb11u1

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It was downloaded from <<https://download.gnome.org/sources/glib/>>.

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1.194 spring-web 5.3.17

1.194.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/ServerHttpResponseDecorator.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/util/ServletRequestPathUtils.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/reactive/JettyClientHttpRequest.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/xml/AbstractXmlHttpMessageConverter.java
```

```
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/ServletServerHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/json/AbstractJackson2Encoder.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/reactive/HttpComponentsClientHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/reactive/ReactorClientHttpRequest.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/xml/SourceHttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/ResourceHttpMessageConverter.java
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```

Found in path(s):

```
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/JettyHeadersAdapter.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
```

jar/org/springframework/http/RequestEntity.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/annotation/ExceptionHandler.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/JettyHttpHandlerAdapter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/ReactorServerHttpResponse.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/reactive/JettyHeadersAdapter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/HttpMethod.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/client/RestOperations.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/ResponseEntity.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/AbstractListenerWriteProcessor.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/multipart/commons/CommonsMultipartResolver.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/SimpleBufferingAsyncClientHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/ContentDisposition.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/DefaultPathContainer.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/cors/reactive/PreFlightRequestWebFilter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/multipart/MultipartFileResource.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/TomcatHeadersAdapter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/ServletHttpHandlerAdapter.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/cors/CorsConfiguration.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java

* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/filter/DelegatingFilterProxy.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/codec/support/BaseDefaultCodecs.java
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/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/server/handler/WebHandlerDecorator.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/codec/xml/XmlEventDecoder.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-

jar/org/springframework/http/client/SimpleClientHttpResponse.java
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jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/ClientHttpRequestInitializer.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/FormHttpMessageWriter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/server/adapters/DefaultServerWebExchange.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java
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/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/ClientCodecConfigurer.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
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jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/client/HttpClientErrorException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/ServerCodecConfigurer.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/CacheControl.java
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jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/support/HttpAccessor.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/util/pattern/PathPatternRouteMatcher.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/filter/reactive/ServerWebExchangeContextFilter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/server/ServerWebExchangeDecorator.java

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/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/xml/JaxbContextContainer.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/client/RestOperationsExtensions.kt
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java
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jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/context/support/RequestHandledEvent.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/HttpRange.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/OkHttp3ClientHttpRequestFactory.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/client/RestClientResponseException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/FormHttpMessageReader.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/context/support/ServletContextScope.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/InterceptingClientHttpRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/client/HttpServerErrorException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/server/reactive/ChannelSendOperator.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/context/ContextCleanupListener.java
No license file was found, but licenses were detected in source scan.

This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.

```

#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# MIME type (lowercased) Extensions
# =====
#
application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json

```

application/calendar+xml

application/call-completion
application/cals-1840
application/cbor
application/ccmp+xml
application/ccxml+xml ccxml
application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmioq
application/cdni
application/cea
application/cea-2018+xml
application/cellml+xml
application/cfw
application/cms
application/cnrx+xml
application/coap-group+json
application/commonground
application/conference-info+xml
application/cpl+xml
application/csrattrs
application/csta+xml
application/cstadata+xml
application/csvm+json
application/cu-seeme cu
application/cybercash
application/dash+xml
application/dashdelta
application/davmount+xml davmount
application/dca-rft
application/dcd
application/dec-dx
application/dialog-info+xml
application/dicom
application/dii
application/dit
application/dns
application/docbook+xml dbk

application/dskpp+xml
application/dssc+der dssc
application/dssc+xml xdssc
application/dvcs
application/ecmascript ecma

application/edi-consent
application/edi-x12
application/edifact
application/efi
application/emergencycalldata.comment+xml
application/emergencycalldata.deviceinfo+xml
application/emergencycalldata.providerinfo+xml
application/emergencycalldata.serviceinfo+xml
application/emergencycalldata.subscriberinfo+xml
application/emma+xml emma
application/emotionml+xml
application/encaprtsp
application/epp+xml
application/epub+zip epub
application/eshop
application/example
application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-sfnt
application/font-tdpfr pfr
application/font-woff woff
application/framework-attributes+xml
application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip

application/h224
application/held+xml
application/http
application/hyperstudio stk
application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
application/im-iscomposing+xml
application/index
application/index.cmd
application/index.obj
application/index.response
application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix

application/ipp
application/isup
application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/jose
application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json
application/jwt
application/kpml-request+xml
application/kpml-response+xml
application/ld+json
application/lgr+xml
application/link-format

application/load-control+xml
application/lost+xml lostxml
application/lostsync+xml
application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
application/macwriteii
application/mads+xml mads
application/marc mrc
application/marcxml+xml mrcx
application/mathematica ma nb mb
application/mathml+xml mathml
application/mathml-content+xml
application/mathml-presentation+xml
application/mbms-associated-procedure-description+xml
application/mbms-deregister+xml
application/mbms-envelope+xml
application/mbms-msk+xml
application/mbms-msk-response+xml
application/mbms-protection-description+xml
application/mbms-reception-report+xml
application/mbms-register+xml
application/mbms-register-response+xml
application/mbms-schedule+xml
application/mbms-user-service-description+xml

application/mbox mbox
application/media-policy-dataset+xml
application/media_control+xml
application/mediaservercontrol+xml mscml
application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets

application/mf4
application/mikey
application/mods+xml mods
application/moss-keys
application/moss-signature
application/mosskey-data
application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s
application/mpeg4-generic
application/mpeg4-iod
application/mpeg4-iod-xmt
application/mrb-consumer+xml
application/mrb-publish+xml
application/msc-ivr+xml
application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
application/nasdata
application/news-checkgroups
application/news-groupinfo
application/news-transmission
application/nlsml+xml
application/nss
application/ocsp-request
application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc
onetoc2 onetmp onepkg
application/oxps oxps
application/p2p-overlay+xml
application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf

```
# application/pdx
application/pgp-encrypted pgp
# application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10 p10
# application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath
application/pkixcmp pki
application/pls+xml pls
# application/poc-settings+xml
application/postscript ai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww cww
# application/prs.hpub+zip
#
application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml pskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
```

application/rpki-manifest mft
application/rpki-roa roa
application/rpki-updown
application/rsd+xml rsd
application/rss+xml rss
application/rtf rtf
application/rtploopback
application/rtx
application/samlassertion+xml
application/samlmetadata+xml
application/sbml+xml sbml
application/scaip+xml
application/scim+json
application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq
application/scvp-vp-response spp
application/sdp sdp

application/sep+xml
application/sep-exi
application/session-info
application/set-payment
application/set-payment-initiation setpay
application/set-registration
application/set-registration-initiation setreg
application/sgml
application/sgml-open-catalog
application/shf+xml shf
application/sieve
application/simple-filter+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smil+xml smi smil
application/smpite336m
application/soap+fastinfoset
application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
application/spirits-event+xml
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application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml

application/tamp-apex-update
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application/tamp-community-update

application/tamp-community-update-confirm
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application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
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application/thraud+xml tfi
application/timestamp-query
application/timestamp-reply
application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml
application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
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application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
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application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb

application/vnd.3gpp.sms
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application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes pwn

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application/vnd.accpac.simply.imp imp
application/vnd.acucobol acu
application/vnd.acucorp atc acute
application/vnd.adobe.air-application-installer-package+zip air
application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt fcdt
application/vnd.adobe.fxp fxp fxpl
application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
application/vnd.aether.imp
application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs
application/vnd.amazon.ebook azw

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application/vnd.amiga.ami ami
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application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
application/vnd.apache.thrift.binary
application/vnd.apache.thrift.compact
application/vnd.apache.thrift.json
application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
application/vnd.autopackage
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr

application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob

application/vnd.bmi bmi
application/vnd.businessobjects rep
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application/vnd.chipnuts.karaoke-mmd mmd
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application/vnd.cirpack.isdn-ext
application/vnd.citationstyles.style+xml
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application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
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application/vnd.cluetrust.cartomobile-config-pkg c11amz
application/vnd.coffeescript
application/vnd.collection+json
application/vnd.collection.doc+json
application/vnd.collection.next+json

application/vnd.comicbook+zip
application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmsg
application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
application/vnd.ctct.ws+xml
application/vnd.cups-pdf
application/vnd.cups-postscript
application/vnd.cups-ppd ppd
application/vnd.cups-raster
application/vnd.cups-raw
application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
application/vnd.cyan.dean.root+xml
application/vnd.cybank
application/vnd.dart dart

application/vnd.data-vision.rdz rdz
application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf
uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece. unspecified uvx uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
application/vnd.desmume.movie
application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dm.delegation+xml
application/vnd.dna dna
application/vnd.document+json
application/vnd.dolby.mlp mlp
application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.2
application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
application/vnd.drive+json
application/vnd.ds-keypoint kpxx
application/vnd.dtg.local
application/vnd.dtg.local.flash
application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer
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application/vnd.dvb.ipdcesgpdd
application/vnd.dvb.ipdcroaming

application/vnd.dvb.iptv.alfec-base
application/vnd.dvb.iptv.alfec-enhancement
application/vnd.dvb.notif-aggregate-root+xml
application/vnd.dvb.notif-container+xml
application/vnd.dvb.notif-generic+xml
application/vnd.dvb.notif-ia-msglist+xml
application/vnd.dvb.notif-ia-registration-request+xml
application/vnd.dvb.notif-ia-registration-response+xml
application/vnd.dvb.notif-init+xml
application/vnd.dvb.pfr
application/vnd.dvb.service svc
application/vnd.dxr
application/vnd.dynageo geo
application/vnd.dzr
application/vnd.easykaraoke.cdgdownload

```
# application/vnd.ecdis-update
application/vnd.ecowin.chart mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
#
application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
#
application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
```


application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
application/vnd.ffsns
application/vnd.filmit.zfc
application/vnd.fints
application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
application/vnd.fujixerox.art-ex
application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd

application/vnd.fujixerox.docuworks.container
application/vnd.fujixerox.hbpl
application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
application/vnd.geo+json
application/vnd.geocube+xml
application/vnd.geogebra.file ggb
application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
application/vnd.gerber
application/vnd.globalplatform.card-content-mgt
application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx gmx
application/vnd.google-earth.kml+xml kml
application/vnd.google-earth.kmz kmz
application/vnd.gov.sk.e-form+xml
application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqf gqs
application/vnd.gridmp

application/vnd.groove-account gac
application/vnd.groove-help ghf
application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg

application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbci
application/vnd.hcl-bireports
application/vnd.hdt
application/vnd.heroku+json
application/vnd.hhe.lesson-player les
application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlyt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
application/vnd.httpphone
application/vnd.hydrostatix.sof-data sfd-hdstx
application/vnd.hyperdrive+json
application/vnd.hzn-3d-crossword
application/vnd.ibm.afplinedata
application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.ibm.secure-container sc
application/vnd.iccprofile icc
icm
application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
application/vnd.ims.imsccv1p1
application/vnd.ims.imsccv1p2
application/vnd.ims.imsccv1p3
application/vnd.ims.lis.v2.result+json
application/vnd.ims.lti.v2.toolconsumerprofile+json
application/vnd.ims.lti.v2.toolproxy+json
application/vnd.ims.lti.v2.toolproxy.id+json
application/vnd.ims.lti.v2.toolsettings+json
application/vnd.ims.lti.v2.toolsettings.simple+json
application/vnd.informedcontrol.rms+xml

```
# application/vnd.informix-visionary
# application/vnd.infotech.project
# application/vnd.infotech.project+xml
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm igm
application/vnd.intercon.formnet xpw xpx
application/vnd.intergeo i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo qbo
application/vnd.intu.qfx qfx
#
  application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
# application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmesssage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile rcprofile
application/vnd.irepository.package+xml irp
application/vnd.is-xpr xpr
application/vnd.isac.fcs fcs
application/vnd.jam jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms rms
application/vnd.jisp jisp
application/vnd.joost.joda-archive joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz ktz
  ktr
application/vnd.kde.karbon karbon
application/vnd.kde.kchart chrt
application/vnd.kde.kformula kfo
application/vnd.kde.kivio flw
application/vnd.kde.kontour kon
application/vnd.kde.kpresenter kpr kpt
application/vnd.kde.kspread ksp
application/vnd.kde.kword kwd kwt
application/vnd.kenameaapp htke
application/vnd.kidspiration kia
```

application/vnd.kinar kne knp
application/vnd.koan skp skd skt skm
application/vnd.kodak-descriptor sse
application/vnd.las.las+xml lasxml
application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3 123
application/vnd.lotus-approach apr
application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
application/vnd.lotus-organizer org
application/vnd.lotus-screencam scm
application/vnd.lotus-wordpro lwp
application/vnd.macports.portpkg portpkg
application/vnd.mapbox-vector-tile
application/vnd.marlin.drm.actiontoken+xml

application/vnd.marlin.drm.conftoken+xml
application/vnd.marlin.drm.license+xml
application/vnd.marlin.drm.mdcf
application/vnd.mason+json
application/vnd.maxmind.maxmind-db
application/vnd.mcd mcd
application/vnd.medcalldata mc1
application/vnd.mediatation.cdkey cdkey
application/vnd.meridian-slideshow
application/vnd.mfer mwf
application/vnd.mfmp mfm
application/vnd.micro+json
application/vnd.micrografx.flo flo
application/vnd.micrografx.igx igx
application/vnd.microsoft.portable-executable
application/vnd.miele+json
application/vnd.mif mif
application/vnd.minisoft-hp3000-save
application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf daf
application/vnd.mobius.dis dis
application/vnd.mobius.mbk mbk
application/vnd.mobius.mqy mqy
application/vnd.mobius.msl msl
application/vnd.mobius.plc plc
application/vnd.mobius.txf txf
application/vnd.mophun.application mpn
application/vnd.mophun.certificate mpc
#

application/vnd.motorola.flexsuite
application/vnd.motorola.flexsuite.adsi
application/vnd.motorola.flexsuite.fis
application/vnd.motorola.flexsuite.gotap
application/vnd.motorola.flexsuite.kmr
application/vnd.motorola.flexsuite.ttc
application/vnd.motorola.flexsuite.wem
application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml xul
application/vnd.ms-3mfdocument
application/vnd.ms-artgalry cil
application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
application/vnd.ms-color.iccprofile
application/vnd.ms-excel xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12 xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12 xlsm
application/vnd.ms-excel.template.macroenabled.12 xltm
application/vnd.ms-fontobject eot
application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme thmx

application/vnd.ms-opentype
application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat cat
application/vnd.ms-pki.stl stl
application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12 ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12 sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12 ppsm
application/vnd.ms-powerpoint.template.macroenabled.12 potm
application/vnd.ms-printdevicecapabilities+xml
application/vnd.ms-printing.printticket+xml
application/vnd.ms-printschematicket+xml
application/vnd.ms-project mpp mpt
application/vnd.ms-tnef
application/vnd.ms-windows.devicepairing
application/vnd.ms-windows.nwprinting.oob
application/vnd.ms-windows.printerpairing
application/vnd.ms-windows.wsd.oob
application/vnd.ms-wmdrm.lic-chlg-req
application/vnd.ms-wmdrm.lic-resp

```
#
application/vnd.ms-wmdrm.meter-chlg-req
# application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
# application/vnd.msa-disk-image
application/vnd.mseq mseq
# application/vnd.msign
# application/vnd.multiad.creator
# application/vnd.multiad.creator.cif
# application/vnd.music-niff
application/vnd.musician mus
application/vnd.muvee.style msty
application/vnd.mynfc taglet
# application/vnd.ncd.control
# application/vnd.ncd.reference
# application/vnd.nervana
# application/vnd.netfpx
application/vnd.neurolanguage.nlu nlu
# application/vnd.nintendo.nitro.rom
# application/vnd.nintendo.snes.rom
application/vnd.nitf ntf nitf
application/vnd.noblenet-directory nnd
application/vnd.noblenet-sealer nns
application/vnd.noblenet-web nnw
# application/vnd.nokia.catalogs
#
application/vnd.nokia.conml+wbxml
# application/vnd.nokia.conml+xml
# application/vnd.nokia.iptv.config+xml
# application/vnd.nokia.isds-radio-presets
# application/vnd.nokia.landmark+wbxml
# application/vnd.nokia.landmark+xml
# application/vnd.nokia.landmarkcollection+xml
# application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
# application/vnd.nokia.ncd
# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-preset rpst
application/vnd.nokia.radio-presets rpss
application/vnd.novadigm.edm edm
application/vnd.novadigm.edx edx
application/vnd.novadigm.ext ext
```

```
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database odb
application/vnd.oasis.opendocument.formula odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet ods
application/vnd.oasis.opendocument.spreadsheet-template ots
application/vnd.oasis.opendocument.text odt
application/vnd.oasis.opendocument.text-master odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web oth
#
application/vnd.obn
# application/vnd.ofn.110n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
#
application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
```

application/vnd.oma.bcast.sgdd+xml
application/vnd.oma.bcast.sgdu
application/vnd.oma.bcast.simple-symbol-container
application/vnd.oma.bcast.smartcard-trigger+xml
application/vnd.oma.bcast.sprov+xml
application/vnd.oma.bcast.stkm
application/vnd.oma.cab-address-book+xml

application/vnd.oma.cab-feature-handler+xml
application/vnd.oma.cab-pcc+xml
application/vnd.oma.cab-subscribe+xml
application/vnd.oma.cab-user-prefs+xml
application/vnd.oma.dcd
application/vnd.oma.dcdc
application/vnd.oma.dd2+xml dd2
application/vnd.oma.drm.risd+xml
application/vnd.oma.group-usage-list+xml
application/vnd.oma.lwm2m+json
application/vnd.oma.lwm2m+tlv
application/vnd.oma.pal+xml
application/vnd.oma.poc.detailed-progress-report+xml
application/vnd.oma.poc.final-report+xml
application/vnd.oma.poc.groups+xml
application/vnd.oma.poc.invocation-descriptor+xml
application/vnd.oma.poc.optimized-progress-report+xml
application/vnd.oma.push
application/vnd.oma.scidm.messages+xml
application/vnd.oma.xcap-directory+xml
application/vnd.omads-email+xml
application/vnd.omads-file+xml
application/vnd.omads-folder+xml
application/vnd.omaloc-supl-init
application/vnd.onepager
application/vnd.openblox.game+xml

application/vnd.openblox.game-binary
application/vnd.openeye.oeb
application/vnd.openofficeorg.extension oxt
application/vnd.openxmlformats-officedocument.custom-properties+xml
application/vnd.openxmlformats-officedocument.customxmlproperties+xml
application/vnd.openxmlformats-officedocument.drawing+xml
application/vnd.openxmlformats-officedocument.drawingml.chart+xml
application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramcolors+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
application/vnd.openxmlformats-officedocument.drawingml.diagramstyle+xml
application/vnd.openxmlformats-officedocument.extended-properties+xml

application/vnd.openxmlformats-officedocument.presentationml.commentauthors+xml
application/vnd.openxmlformats-officedocument.presentationml.comments+xml
application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml

application/vnd.openxmlformats-officedocument.presentationml.notesmaster+xml
application/vnd.openxmlformats-officedocument.presentationml.noteslide+xml
application/vnd.openxmlformats-officedocument.presentationml.presentation pptx
application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slide sldx
application/vnd.openxmlformats-officedocument.presentationml.slide+xml
application/vnd.openxmlformats-officedocument.presentationml.slidelayout+xml
application/vnd.openxmlformats-officedocument.presentationml.slidemaster+xml
application/vnd.openxmlformats-officedocument.presentationml.slideshow ppsx
application/vnd.openxmlformats-officedocument.presentationml.slideshow.main+xml
application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml

application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
application/vnd.openxmlformats-officedocument.presentationml.tags+xml
application/vnd.openxmlformats-officedocument.presentationml.template potx
application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.calcchain+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.dialogsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.externallink+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcachedefinition+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.pivotcacherecords+xml

application/vnd.openxmlformats-officedocument.spreadsheetml.pivottable+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.querytable+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.revisionheaders+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.revisionlog+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sharedstrings+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet xlsx
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.main+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.table+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.tablesinglecells+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx
application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml

application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml

application/vnd.openxmlformats-officedocument.theme+xml
application/vnd.openxmlformats-officedocument.themeoverride+xml
application/vnd.openxmlformats-officedocument.vmldrawing
application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml

application/vnd.openxmlformats-officedocument.wordprocessingml.footnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
application/vnd.openxmlformats-package.core-properties+xml
application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
application/vnd.openxmlformats-package.relationships+xml
application/vnd.oracle.resource+json
application/vnd.orange.indata
application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package mgp
application/vnd.osgi.bundle
application/vnd.osgi.dp dp
application/vnd.osgi.subsystem esa

application/vnd.otps.ct-kip+xml
application/vnd.oxli.countgraph
application/vnd.pagerduty+json
application/vnd.palm pdb pqa oprc
application/vnd.panoply
application/vnd.paos.xml
application/vnd.pawaafire paw
application/vnd.pcos
application/vnd.pg.format str
application/vnd.pg.osasli ei6
application/vnd.piaccess.application-licence
application/vnd.picisel efif
application/vnd.pmi.widget wg
application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn plf
application/vnd.powerbuilder6 pbd
application/vnd.powerbuilder6-s
application/vnd.powerbuilder7
application/vnd.powerbuilder7-s

```
# application/vnd.powerbuilder75
# application/vnd.powerbuilder75-s
# application/vnd.preminet
application/vnd.previewsystems.box box
application/vnd.proteus.magazine mgz
application/vnd.publishare-delta-tree qps
application/vnd.pvi.ptid1 ptid
# application/vnd.pwg-multiplexed
# application/vnd.pwg-xhtml-print+xml
# application/vnd.qualcomm.brew-app-res
#
application/vnd.quarantainenet
application/vnd.quark.quarkxpress qxd qxt qwd qwt qxl qxb
# application/vnd.quobject-quoxdocument
# application/vnd.radisys.moml+xml
# application/vnd.radisys.msml+xml
# application/vnd.radisys.msml-audit+xml
# application/vnd.radisys.msml-audit-conf+xml
# application/vnd.radisys.msml-audit-conn+xml
# application/vnd.radisys.msml-audit-dialog+xml
# application/vnd.radisys.msml-audit-stream+xml
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# application/vnd.radisys.msml-dialog-fax-sendrecv+xml
# application/vnd.radisys.msml-dialog-group+xml
# application/vnd.radisys.msml-dialog-speech+xml
# application/vnd.radisys.msml-dialog-transform+xml
# application/vnd.rainstor.data
# application/vnd.rapid
# application/vnd.rar
application/vnd.realvnc.bed bed
application/vnd.recordare.musicxml mxl
application/vnd.recordare.musicxml+xml musicxml
#
application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote cryptonote
application/vnd.rim.cod cod
application/vnd.rn-realmedia rm
application/vnd.rn-realmedia-vbr rmvb
application/vnd.route66.link66+xml link66
# application/vnd.rs-274x
# application/vnd.ruckus.download
# application/vnd.s3sms
application/vnd.sailingtracker.track st
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
```

application/vnd.scribus
application/vnd.sealed.3df
application/vnd.sealed.csf
application/vnd.sealed.doc
application/vnd.sealed.eml
application/vnd.sealed.mht
application/vnd.sealed.net
application/vnd.sealed.ppt
application/vnd.sealed.tiff
application/vnd.sealed.xls
application/vnd.sealedmedia.softseal.html
application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail see
application/vnd.sema sema
application/vnd.semd semd
application/vnd.semf semf
application/vnd.shana.informed.formdata ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package ipk
application/vnd.simtech-mindmapper twd
twds
application/vnd.siren+json
application/vnd.smaf mmf
application/vnd.smart.notebook
application/vnd.smart.teacher teacher
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application/vnd.software602.filler.form+xml-zip
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application/vnd.spotfire.sfs sfs
application/vnd.sss-cod
application/vnd.sss-dtf
application/vnd.sss-ntf
application/vnd.stardivision.calc sdc
application/vnd.stardivision.draw sda
application/vnd.stardivision.impress sdd
application/vnd.stardivision.math smf
application/vnd.stardivision.writer sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package smzip
application/vnd.stepmania.stepchart sm
application/vnd.street-stream
application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc sxc
application/vnd.sun.xml.calc.template stc
application/vnd.sun.xml.draw sxd
application/vnd.sun.xml.draw.template std

application/vnd.sun.xml.impress sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math sxm
application/vnd.sun.xml.writer sxw
application/vnd.sun.xml.writer.global sxc
application/vnd.sun.xml.writer.template stw
application/vnd.sus-calendar sus
susp
application/vnd.svd svd
application/vnd.swiftview-ics
application/vnd.symbian.install sis six
application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
application/vnd.syncml.dm.notification
application/vnd.syncml.dmddf+wbxml
application/vnd.syncml.dmddf+xml
application/vnd.syncml.dmtnds+wbxml
application/vnd.syncml.dmtnds+xml
application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
application/vnd.tmd.mediaflex.api+xml
application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra

application/vnd.truedoc
application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
application/vnd.uplanet.alert
application/vnd.uplanet.alert-wbxml
application/vnd.uplanet.bearer-choice
application/vnd.uplanet.bearer-choice-wbxml
application/vnd.uplanet.cacheop
application/vnd.uplanet.cacheop-wbxml
application/vnd.uplanet.channel
application/vnd.uplanet.channel-wbxml
application/vnd.uplanet.list
application/vnd.uplanet.list-wbxml
application/vnd.uplanet.listcmd
application/vnd.uplanet.listcmd-wbxml

```
# application/vnd.uplanet.signal
# application/vnd.uri-map
# application/vnd.valve.source.material
application/vnd.vcx vcx
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
#
application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
application/vnd.visio vsd vst vss vsw
application/vnd.visionary vis
# application/vnd.vividence.scriptfile
application/vnd.vsf vsf
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml wbxml
application/vnd.wap.wmlc wmlc
application/vnd.wap.wmlscriptc wmlsc
application/vnd.webturbo wtb
# application/vnd.wfa.p2p
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player nbp
application/vnd.wordperfect wpd
application/vnd.wqd wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara xar
application/vnd.xfdl xfdl
# application/vnd.xfdl.webform
#
application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic hvd
application/vnd.yamaha.hv-script hvs
```

application/vnd.yamaha.hv-voice hvp
application/vnd.yamaha.openscoreformat osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio saf
application/vnd.yamaha.smaf-phrase spf
application/vnd.yamaha.through-ngn
application/vnd.yamaha.tunnel-udpencap
application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp
application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
application/vq-rtcpvr
application/watcherinfo+xml
application/whoispp-query
application/whoispp-response
application/widget wgt
application/winhelp hlp
application/wita
application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace

application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc

application/x-director dir dcr dxr cst cct ext w3d fgd swa
application/x-doom wad
application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb
application/x-dtbresource+xml res
application/x-dvi dvi
application/x-envoy evy
application/x-eva eva
application/x-font-bdf bdf

application/x-font-dos
application/x-font-framemaker
application/x-font-ghostscript gsf
application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-otf otf
application/x-font-pcf pcf
application/x-font-snf snf
application/x-font-speedo
application/x-font-sunos-news
application/x-font-ttf ttf ttc
application/x-font-type1 pfa pfb pfm afm
application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps+xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc
mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd

application/x-msclip clp
application/x-msdownload exe dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
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application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
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application/x-stuffitx sitx
application/x-subrip srt
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application/x-sv4crc sv4crc
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application/x-tex-tfm tfm
application/x-texinfo texinfo
texi
application/x-tgif obj
application/x-ustar ustar
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application/x-x509-ca-cert der crt
application/x-xfig fig
application/x-xliff+xml xlf
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application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
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application/xcap-att+xml

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xht
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application/xspf+xml xspf
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application/yin+xml yin
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audio/lpc

audio/midi mid midi kar rmi
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audio/mpa-robust
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audio/musepack
audio/ogg oga ogg spx
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audio/pcma-wb
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audio/pcmu-wb
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audio/rtploopback
audio/rtx
audio/s3m s3m
audio/silk sil

audio/smv
audio/smv-qcp
audio/smv0
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audio/vnd.cns.inf1

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audio/vnd.dlna.adts
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audio/vnd.dolby.mps
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audio/vnd.dra dra
audio/vnd.dts dts
audio/vnd.dts.hd dtshd
audio/vnd.dvb.file
audio/vnd.everad.plj
audio/vnd.hns.audio
audio/vnd.lucent.voice lvp
audio/vnd.ms-playready.media.pya pya
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audio/vorbis
audio/vorbis-config
audio/webm weba
audio/x-aac aac
audio/x-aiff aif aiff aifc
audio/x-caf caf
audio/x-flac flac
audio/x-matroska mka
audio/x-mpegurl m3u
audio/x-ms-wax wax
audio/x-ms-wma wma
audio/x-pn-realaudio ram ra
audio/x-pn-realaudio-plugin rmp
audio/x-tta
audio/x-wav wav
audio/xm xm
chemical/x-cdx cdx

chemical/x-cif cif
chemical/x-cmdf cmdf
chemical/x-cml cml
chemical/x-csml csml
chemical/x-pdb
chemical/x-xyz xyz
image/bmp bmp
image/cgm cgm
image/dicom-rle
image/emf
image/example
image/fits
image/g3fax g3
image/gif gif
image/ief ief
image/jls
image/jp2
image/jpeg jpeg jpg jpe
image/jpm
image/jpx
image/ktx ktx
image/naplps
image/png png
image/prs.btif btif

image/prs.pti
image/pwg-raster
image/sgi sgi
image/svg+xml svg svgz
image/t38
image/tiff tiff tif
image/tiff-fx
image/vnd.adobe.photoshop psd
image/vnd.airzip.accelerator.azv
image/vnd.cns.inf2
image/vnd.dece.graphic uvi uvvi uvg uvvg
image/vnd.djvu djvu djv
image/vnd.dvb.subtitle sub
image/vnd.dwg dwg
image/vnd.dxf dxf
image/vnd.fastbidsheet fbs
image/vnd.fpx fpx
image/vnd.fst fst
image/vnd.fujixerox.edmics-mmr mmr
image/vnd.fujixerox.edmics-rlc rlc
image/vnd.globalgraphics.pgb
image/vnd.microsoft.icon
image/vnd.mix

```
# image/vnd.mozilla.apng
image/vnd.ms-modi mdi
image/vnd.ms-photo wdp
image/vnd.net-fpx npx
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp wbmp
image/vnd.xiff xif
# image/vnd.zbrush.pcx
image/webp webp
# image/wmf
image/x-3ds 3ds
image/x-cmu-raster ras
image/x-cmx cmx
image/x-freehand fh
fhc fh4 fh5 fh7
image/x-icon ico
image/x-mrsid-image sid
image/x-pcx pcx
image/x-pict pic pct
image/x-portable-anymap pnm
image/x-portable-bitmap pbm
image/x-portable-graymap pgm
image/x-portable-pixmap ppm
image/x-rgb rgb
image/x-tga tga
image/x-xbitmap xbm
image/x-xpixmap xpm
image/x-xwindowdump xwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
```

message/rfc822 eml mime
message/s-http
message/sip
message/sipfrag
message/tracking-status
message/vnd.si.simp
message/vnd.wfa.wsc
model/example
model/gltf+json
model/iges igs iges
model/mesh msh mesh silo
model/vnd.collada+xml dae
model/vnd.dwf dwf

model/vnd.flatland.3dml
model/vnd.gdl gdl
model/vnd.gs-gdl
model/vnd.gs.gdl
model/vnd.gtw gtw
model/vnd.moml+xml
model/vnd.mts mts
model/vnd.opengex
model/vnd.parasolid.transmit.binary
model/vnd.parasolid.transmit.text
model/vnd.rosette.annotated-data-model
model/vnd.valve.source.compiled-map
model/vnd.vtu vtu
model/vrml wrl vrml
model/x3d+binary x3db x3dbz
model/x3d+fastinfoset
model/x3d+vrml x3dv x3dvz
model/x3d+xml x3d x3dz
model/x3d-vrml
multipart/alternative
multipart/appledouble
multipart/byteranges
multipart/digest
multipart/encrypted
multipart/example
multipart/form-data
multipart/header-set
multipart/mixed
multipart/parallel
multipart/related
multipart/report
multipart/signed
multipart/voice-message
multipart/x-mixed-replace

text/1d-interleaved-parityfec
text/cache-manifest appcache
text/calendar ics ifb
text/css css
text/csv csv
text/csv-schema

text/directory
text/dns
text/ecmascript
text/encaprtpt
text/enriched
text/example
text/fwdred
text/grammar-ref-list
text/html html htm
text/javascript
text/jcr-cnd
text/markdown
text/mizar
text/n3 n3
text/parameters
text/parityfec
text/plain txt text conf def list log in
text/provenance-notation
text/prs.fallenstein.rst
text/prs.lines.tag dsc
text/prs.prop.logic
text/raptorfec
text/red
text/rfc822-headers
text/richtext rtx
text/rtf
text/rtp-enc-aescm128
text/rtploopback
text/rtx
text/sgml sgml sgm
text/t140
text/tab-separated-values tsv
text/troff t tr roff man me ms
text/turtle ttl
text/ulpfec
text/uri-list uri uris urls
text/vcard vcard
text/vnd.a
text/vnd.abc
text/vnd.curl curl
text/vnd.curl.dcurl dcurl

text/vnd.curl.mcurl mcurl
text/vnd.curl.scurl scurl
text/vnd.debian.copyright
text/vnd.dmclientscript
text/vnd.dvb.subtitle sub
text/vnd.esmertec.theme-descriptor
text/vnd.fly fly
text/vnd.fmi.flexstor flx
text/vnd.graphviz gv
text/vnd.in3d.3dml 3dml
text/vnd.in3d.spot spot

text/vnd.iptc.newsml
text/vnd.iptc.nitf
text/vnd.latex-z
text/vnd.motorola.reflex
text/vnd.ms-mediapackage
text/vnd.net2phone.commcenter.command
text/vnd.radisys.msml-basic-layout
text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor jad
text/vnd.trolltech.linguist
text/vnd.wap.si
text/vnd.wap.sl
text/vnd.wap.wml wml
text/vnd.wap.wmlscript wmls
text/x-asm s asm
text/x-c c cc cxx cpp h hh dic
text/x-fortran f for f77 f90
text/x-java-source java
text/x-nfo nfo
text/x-opml opml
text/x-pascal p pas
text/x-setext etx
text/x-sfv sfv
text/x-uuencode uu
text/x-vcalendar vcs
text/x-vcard vcf
text/xml
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video/1d-interleaved-parityfec
video/3gpp 3gp
video/3gpp-tt
video/3gpp2 3g2
video/bmpeg
video/bt656
video/celb
video/dv

```
# video/encaprtsp
#
video/example
video/h261 h261
video/h263 h263
# video/h263-1998
# video/h263-2000
video/h264 h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg jpgv
# video/jpeg2000
video/jpm jpm jpgm
video/mj2 mj2 mjp2
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4 mp4 mp4v mpg4
# video/mp4v-es
video/mpeg mpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/ogg ogv
# video/parityfec
# video/pointer
video/quicktime qt mov
# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smp292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hd uvh uvvh
video/vnd.dece.mobile uvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pd uvp uvvp
video/vnd.dece.sd uvs uvvs
video/vnd.dece.video uvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.dvb.file dvb
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video/vnd.fvt fvt
video/vnd.hns.video
video/vnd.iptvforum.1dparityfec-1010

video/vnd.iptvforum.1dparityfec-2005
video/vnd.iptvforum.2dparityfec-1010
video/vnd.iptvforum.2dparityfec-2005
video/vnd.iptvforum.ttsavc
video/vnd.iptvforum.ttsmpeg2
video/vnd.motorola.video
video/vnd.motorola.videop
video/vnd.mpegurl mxu m4u
video/vnd.ms-playready.media.pyv pyv
video/vnd.nokia.interleaved-multimedia
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video/vnd.objectvideo
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video/vnd.radgamettools.smacker
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video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found

in path(s):

* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/mime.types

No license file was found, but licenses were detected in source scan.

```
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

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jar/org/springframework/web/bind/annotation/RequestPart.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/remoting/caucho/SimpleHessianServiceExporter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/Netty4ClientHttpRequest.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/util/NestedServletException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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jar/org/springframework/web/filter/RelativeRedirectFilter.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/client/support/BasicAuthorizationInterceptor.java
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jar/org/springframework/http/converter/protobuf/ProtobufJsonFormatHttpMessageConverter.java
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jar/org/springframework/http/client/AsyncClientHttpRequest.java
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/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/context/request/NativeWebRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/HttpCookie.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/client/AsyncClientHttpRequestExecution.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/jsf/FacesContextUtils.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/http/client/ClientHttpRequest.java

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* limitations under the License.
*/
/**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method
does not automatically create a session. See { @link WebSession }
* for more details.
*/
```

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jar/org/springframework/web/server/ServerWebExchange.java
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org.springframework.web.server.adapter.WebHttpHandlerBuilder\$SpringWebBlockHoundIntegration

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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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jar/org/springframework/http/server/ServerHttpResponse.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/HttpMediaTypeException.java

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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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jar/org/springframework/web/context/request/RequestContextListener.java
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jar/org/springframework/http/converter/HttpMessageConversionException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
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jar/org/springframework/http/HttpMessage.java
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jar/org/springframework/http/converter/HttpMessageNotWritableException.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/util/HttpSessionMutexListener.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/context/request/RequestContextHolder.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-jar/org/springframework/web/filter/CompositeFilter.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/server/WebHandler.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/context/request/RequestScope.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/util/WebAppRootListener.java
*
/opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/HttpRequestHandler.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/annotation/PatchMapping.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/bind/annotation/PutMapping.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/multipart/MultipartRequest.java
* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
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* /opt/cola/permits/1292609394_1647966773.25/0/spring-web-5-3-17-sources-
jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java

1.195 futures 0.18.2

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1.196 backoff 3.2.2

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1.197 metrics 3.0.1

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Found in path(s):

- * /opt/cola/permits/1303908638_1649463109.97/0/metrics-3-0-1-sources-1-jar/com/tomtom/speedtools/metrics/MetricsCollector.java
- * /opt/cola/permits/1303908638_1649463109.97/0/metrics-3-0-1-sources-1-jar/com/tomtom/speedtools/metrics/MultiMetricsCollector.java
- * /opt/cola/permits/1303908638_1649463109.97/0/metrics-3-0-1-sources-1-jar/com/tomtom/speedtools/metrics/MetricsTimeSlot.java
- *
- /opt/cola/permits/1303908638_1649463109.97/0/metrics-3-0-1-sources-1-jar/com/tomtom/speedtools/metrics/MetricsData.java
- * /opt/cola/permits/1303908638_1649463109.97/0/metrics-3-0-1-sources-1-jar/com/tomtom/speedtools/metrics/MultiMetricsData.java

1.198 weak-lock-free 0.17

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Found in path(s):

- * /opt/cola/permits/1305929524_1649781922.94/0/weak-lock-free-0-17-sources-1-jar/META-INF/maven/com.blogspot.mydailyjava/weak-lock-free/pom.xml

1.199 xz 5.2.5-2.1~deb11u1

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>

To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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- * Subject: Re: OpenLDAP Licenseing issues
- * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
- * Date: Wed, 28 May 2003 10:55:44 -0700
- * Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
- * In-reply-to: <20030528162613.GB8524@ns.snowman.net>
- * Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
- * Old-return-path: <Kurt@OpenLDAP.org>

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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regexp/utf8.[ch] (see regexp/LICENSE):

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1.211 high-scale-lib 1.0.6

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* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-jar/org/cliffc/high_scale_lib/ConcurrentAutoTable.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-jar/java/util/concurrent/ConcurrentHashMap.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-jar/org/cliffc/high_scale_lib/NonBlockingHashMap.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-jar/org/cliffc/high_scale_lib/NonBlockingSetInt.java
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```
jar/org/cliffc/high_scale_lib/AbstractEntry.java
*
/opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-
jar/org/cliffc/high_scale_lib/NonBlockingHashtable.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-jar/java/util/Hashtable.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-
jar/org/cliffc/high_scale_lib/NonBlockingHashMapLong.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-
jar/org/cliffc/high_scale_lib/NonBlockingHashSet.java
* /opt/cola/permits/1360632734_1657532863.2468047/0/high-scale-lib-1-0-6-sources-4-
jar/org/cliffc/high_scale_lib/Counter.java
```

1.212 bash 5.1-2+deb11u1

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jar/jnr/ffi/util/ref/FinalizableReference.java
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jar/jnr/ffi/util/ref/FinalizableSoftReference.java
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jar/jnr/ffi/util/ref/FinalizableWeakReference.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/BaseMethodGenerator.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeClosureManager.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/provider/jffi/AsmBuilder.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/NativeClosurePointer.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/DefaultObjectReferenceManager.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/AbstractFastNumericMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/FastIntMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/MethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/StructLayout.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/AbstractDataConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/ClosureManager.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/IntPtrPointer.java
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/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/FastLongMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/FastNumericMethodGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/BufferMethodGenerator.java
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jar/jnr/ffi/provider/jffi/DefaultInvokerFactory.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Pointer.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NativeInvocationHandler.java
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- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NumberUtil.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/In.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Library.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/BadType.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/MethodParameterContext.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ArrayMemoryIO.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/FloatByReference.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/TypeMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/PointerByReference.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/X86_64StubCompiler.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/SymbolNotFoundError.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/EnumMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Platform.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/NativeLong.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/LastError.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeMemoryManager.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/BoundedMemoryIO.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/ToNativeConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/DataConverter.java
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- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/CodegenUtils.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ShareMemoryIO.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/Invoker.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/X86_32StubCompiler.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/MethodResultContext.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/IgnoreError.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/ByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/ByteByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ARM_64StubCompiler.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/BufferUtil.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InAccessibleMemoryIO.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NullTypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/FromNativeConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ParameterFlags.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeLibrary.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/AddressByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Synchronized.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmRuntime.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/StdCall.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/provider/jffi/AsmClassLoader.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Address.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmUtil.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/DoubleByReference.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/AbstractMemoryIO.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/AbstractRuntime.java
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/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AbstractX86StubCompiler.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Pinned.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/AbstractArrayMemoryIO.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/DelegatingMemoryIO.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/Meta.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/annotations/SaveError.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/IdentityFunctionMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NullMemoryIO.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/LoadedLibrary.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/SkinnyMethodAdapter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/JNIInvokeInterface.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/byref/NativeLongByReference.java
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* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Memory.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Type.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Runtime.java

*

/* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/byref/AbstractNumberReference.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/byref/AbstractReference.java

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Found in path(s):

- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ResultType.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InterfaceScanner.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/StructByReferenceResultConverterFactory.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SimpleFunctionMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/FromNativeType.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AnnotationTypeMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NativeVariable.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ParameterType.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SimpleTypeMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ConverterMetaData.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/SigType.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/Types.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/ToNativeType.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/NativeFunction.java

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- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/solaris/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/LocalVariableAllocator.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/mips64/linux/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/X86Disassembler.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/sparc/solaris/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StructByReferenceFromNativeConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/openbsd/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NotImplMethodGenerator.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/CachingTypeMapper.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/Variable.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StringBufferParameterConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedBooleanArrayParameterConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StructByReferenceToNativeConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/AsmStructByReferenceFromNativeConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ToNativeOp.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/freebsd/TypeAliases.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/EnumConverter.java
- *
- /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/EnumSetConverter.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/DefaultSignatureType.java
- * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

jar/jnr/ffi/provider/converters/ByReferenceParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/Annotations.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/util/AnnotationNameComparator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/InvokerTypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/id_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedFloatArrayParameterConverter.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/ToNativeType.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InvalidProvider.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedLong32ArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc64/aix/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/rlim_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/PrimitiveArrayParameterStrategy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc/linux/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int8_t.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/BufferParameterStrategy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/blkcnt_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/caddr_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ReflectionVariableAccessorGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/pid_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/arm/linux/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/PointerParameterStrategy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/linux/TypeAliases.java
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/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedByteArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/aarch64/darwin/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/BoxedDoubleArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/HeapBufferParameterStrategy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int16_t.java

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/in_addr_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int32_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/InvalidRuntime.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/openbsd/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/SignatureTypeMapperAdapter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/VariableAccessorGenerator.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/StringUtil.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/nlink_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NativeFunctionMapperContext.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/Pointer64ArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/windows/TypeAliases.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/mode_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/swblk_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc/darwin/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/ino64_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/SimpleNativeContext.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/x86_64/midnightbsd/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc/aix/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/ino_t.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/AbstractSignatureTypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/ParameterStrategy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/sa_family_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/converters/NativeLongConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/darwin/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/ppc64/ibmi/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/gid_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/platform/i386/midnightbsd/TypeAliases.java

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*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int8_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/ssize_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/socklen_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/BoxedLong64ArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/NativeClosureProxy.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/Util.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int32_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/x86_64/freebsd/TypeAliases.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/ToNativeTypes.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/DefaultTypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/i386/solaris/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/CompositeFunctionMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/annotations/TypeDefinition.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/CharSequenceParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/off_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/FromNativeType.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/CompositeTypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/blksize_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/TypeAlias.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/NativeLibraryLoader.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/NoTrace.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/mips64el/linux/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/in_port_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/LibraryLoader.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/Long32ArrayParameterConverter.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/clock_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/byref/NumberByReference.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-

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jar/jnr/ffi/provider/jffi/ClosureFromNativeConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/mips/linux/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/NativeLong32ArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/fsblkcnt_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/dev_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/ClosureTypeMapper.java
 *
 /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/i386/linux/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/x86_64/dragonfly/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/ReflectionLibraryLoader.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/Pointer32ArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/mapper/Util.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/FromNativeTypes.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/aarch64/freebsd/TypeAliases.java
 *
 /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/size_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/BoxedShortArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/uintptr_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/mipsel/linux/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/TransientNativeMemory.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/fsfilcnt_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/intptr_t.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/s390/linux/TypeAliases.java
 *
 /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/provider/jffi/NoX86.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/sparcv9/solaris/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/converters/CharSequenceArrayParameterConverter.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/mapper/SignatureType.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/i386/windows/TypeAliases.java
 * /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
 jar/jnr/ffi/provider/jffi/platform/x86_64/darwin/TypeAliases.java

```

* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/LocalVariable.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/annotations/Encoding.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/AbstractFromNativeType.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/StringResultConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/StructArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/AbstractToNativeType.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/uid_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/NativeLong64ArrayParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/mapper/SignatureTypeMapper.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/key_t.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int16_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/u_int64_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/platform/s390x/linux/TypeAliases.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/StringBuilderParameterConverter.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/time_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/NativeFinalizer.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-jar/jnr/ffi/types/int64_t.java
* /opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/jffi/NullObjectParameterStrategy.java
*
/opt/cola/permits/1375205426_1659101016.280055/0/jnr-ffi-2-2-11-sources-1-
jar/jnr/ffi/provider/converters/BoxedIntegerArrayParameterConverter.java

```

1.214 jnr-posix 3.1.15

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* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/DefaultNativeGroup.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/util/Java5ProcessMaker.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/util/ProcessMaker.java

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jar/jnr/posix/DragonFlyFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDPasswd.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/OpenBSDPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDFileStat12.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/LinuxFileStat32.java
*
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/FreeBSDPOSIX.java
```

```
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/DragonFlyPOSIX.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixPasswd.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/AixLibC.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/DragonFlyPasswd.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/OpenBSDPasswd.java
*
/opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/OpenBSDFileStat.java
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* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/MacOSFileStat64Inode.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-
jar/jnr/posix/MacOSFileStat.java
* /opt/cola/permits/1375205473_1659101031.5925004/0/jnr-posix-3-1-15-sources-1-jar/jnr/posix/util/Platform.java
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FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
* Copyright 1992-1998
```

Apple Computer, Inc.

```
* Portions copyright 1995 Jim Luther
* All rights reserved.
* The Package "More Files" is distributed under the following
* license terms:
*
* "You may incorporate this sample code into your
* applications without restriction, though the
* sample code has been provided "AS IS" and the
* responsibility for its operation is 100% yours.
* However, what you are not permitted to do is to
* redistribute the source as "DSC Sample Code" after
* having made changes. If you're going to
* redistribute the source, we require that you make
* it clear in the source that the code was descended
* from Apple Sample Code, but that you've made
* changes."
```

The usage terms of this copyright note are compatible with the

Info-ZIP license, they do not add further restrictions.

The following
copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

- * MacBinaryIII.h
- *
- * Copyright 1997 Christopher Evans (cevens@poppybank.com)
- *
- * Basic encoding and decoding of Macintosh files to the
- * MacBinary III spec.
- * -----
- * This source is copyrighted by Christopher Evans (cevens@poppybank.com)
- * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
- * homepage of Leonard Rosenthol leonardr@netcom.com)

This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseded by the new
Info-ZIP license, with explicit permission from the respective
original authors. They are cited here for historical reasons,
only:

The following copyright applies to the full-featured unreduce.c
(now distributed separately):

- * Copyright 1989 Samuel H. Smith; All rights reserved
- *
- * Do not distribute modified versions without my permission.
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- * If you use this in your own program you must distribute source code.
- * Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten

and by default

no longer contains any of Mr. Smith's code, Info-ZIP

remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

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The following copyright applied to the new version of unshrink.c, distributed with UnZip version 5.2 and later:

- * Copyright (c) 1994 Greg Roelofs.
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- * any purpose whatsoever, subject to the conditions noted in the
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- * condition: namely, that my name not be removed from the source
- * code. (Other names may, of course, be added as modifications
- * are made.) Corporate legal staff (like at IBM :-)) who have
- * problems understanding this can contact me through Zip-Bugs...

The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

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CE GUI port, ``Pocket
UnZip," distributed with UnZip version 5.3 and later:

- * All the source files for Pocket UnZip, except for components
- * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
- * Miller. The product "Pocket UnZip" itself is property of the
- * author and cannot be altered in any way without written consent
- * from Steve P. Miller.

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.216 go-colorable 0.1.13

1.216.1 Available under license :

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1.217 jackson 2.12.7

1.217.1 Available under license :

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0 To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

1.218 zlib 1.2.11.dfsg-2+deb11u2

1.218.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

No license file was found, but licenses were detected in source scan.

```
/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
```

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-
- * Added ZIP64 support for unzip (by Even Rouault)
 - * Added ZIP64 support for zip (by Mathias Svensson)
 - * Reverted some changed that Even Rouault did.
 - * Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
 - * Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
 - * Added BZIP Compress method for zip
 - * Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>
Zip File specification

Notes.

- * To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt

No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler */

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

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Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

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For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.
```

```
/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.
```

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
No license file was found, but licenses were detected in source scan.
```

```
/* gzclos.c -- zlib gzclos() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclos.c
No license file was found, but licenses were detected in source scan.
```

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
```

No license file was found, but licenses were detected in source scan.

```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.
```

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.
```

```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Condition of use and distribution are the same than zlib :

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Changes

See header of zip.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/zconf.h.cmakein

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access

* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm

* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.
```

```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.
```

```
/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.
```

```
/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.
```

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.
```

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
```

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library

* Copyright (C) 1995-2017 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library

* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage

* Copyright (C) 2011, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files

* Copyright (C) 2004-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()

* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.7 12 August 2012 Mark Adler */

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html

No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

No license file was found, but licenses were detected in source scan.

/* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in `.zip` format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32`

compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page <http://zlib.net/> which may have more recent information. The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

- * <http://marknelson.us/1997/01/01/zlib-engine/>
- * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h. Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.

Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h` .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how `zlib` is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does `zlib` have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If `zlib` is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if `zlib` is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of `zlib`. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of `zlib`?

Probably what you want is to use `zlib` in Java. `zlib` is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of `zlib` written in the Java language, look on the `zlib` home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it

up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an

unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

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Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

No license file was found, but licenses were detected in source scan.

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

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```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
```

No license file was found, but licenses were detected in source scan.

```
# For conditions of distribution and use, see copyright notice in zlib.h
```

Found in path(s):

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
```

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
```

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
```

```
* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
```

No license file was found, but licenses were detected in source scan.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

Found in path(s):

* /opt/cola/permits/1400134737_1661788173.3023732/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

1.219 colorama 0.4.4

1.219.1 Available under license :

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1.220 webencodings 0.5.1

1.220.1 Available under license :

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python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`
<<http://encoding.spec.whatwg.org/>>` _.

- * Latest documentation: <http://packages.python.org/webencodings/>
- * Source code and issue tracker:
<https://github.com/gsnedders/python-webencodings>
- * PyPI releases: <http://pypi.python.org/pypi/webencodings>
- * License: BSD
- * Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```

VERSION = re.search("VERSION = '([^\s]+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language
:: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

```

Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py

No license file was found, but licenses were detected in source scan.

```
"""
```

```
webencodings.mklabels
```

```
~~~~~
```

```
Regenerate the webencodings.labels module.
```

```
:copyright: Copyright 2012 by Simon Sapin
```

```
:license: BSD, see LICENSE for details.
```

```
"""
```

```
import json
```

```
try:
```

```
    from urllib import urlopen
```

```
except ImportError:
```

```
    from urllib.request import urlopen
```

```
def assert_lower(string):
```

```
    assert string == string.lower()
```

```
    return string
```

```
def generate(url):
```

```
    parts = ["\
```

```
"""
```

```
webencodings.labels
```

```
~~~~~
```

```
Map encoding labels to their name.
```

```
:copyright: Copyright 2012 by Simon Sapin
```

```
:license: BSD, see LICENSE for details.
```

```
"""
```

```
# XXX Do not edit!
```

```
# This file is automatically generated by mklabels.py
```

```
LABELS = {
```

```
    ""
```

```
    labels = [
```

```
        (repr(assert_lower(label)).lstrip('u'),
```

```
         repr(encoding['name']).lstrip('u'))
```

```
        for category in json.loads(urlopen(url).read().decode('ascii'))
```

```
        for encoding in category['encodings']
```

```

    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}')
return ".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

```

Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: me@gsnedders.com

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`
[<http://encoding.spec.whatwg.org/>](http://encoding.spec.whatwg.org/)`_.

* Latest documentation: <http://packages.python.org/webencodings/>

* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

* PyPI releases: <http://pypi.python.org/pypi/webencodings>

- * License: BSD
- * Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

- * /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
- * /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

1.221 packaging 21.3

1.221.1 Available under license :

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1.222 six 1.16.0

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1.223 tomli 2.0.1

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1.224 pyparsing 3.0.9

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1.225 pycparser 2.21

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pycparser -- A C parser in Python

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1.226 python-dateutil 2.8.2

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dateutil - Extensions to the standard Python datetime module.

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1.227 tika 1.28.5

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```
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Sample DXF file testDXF.dxf (in tika-parsers/src/test/resources/test-documents)

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quine.gz test file (MIT License)

<https://twitter.com/WhoStoleHonno/status/1153315367235784704?s=20>

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com.googlecode.plist:dd-plist

dd-plist

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## 1.228 bzip2 1.0.8-4

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Upstream-Name: bzip2

Source: <http://www.bzip.org/>

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## 1.229 selinux 3.1-3

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| NR | START | END   | SECTORS | SIZE | NAME | UUID        |
|----|-------|-------|---------|------|------|-------------|
| 1  | 32    | 7679  | 7648    | 3.7M |      | 8f8378c0-01 |
| 2  | 7680  | 16383 | 8704    | 4.3M |      | 8f8378c0-02 |
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jar/org/cyberneko/html/SecuritySupport.java  
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jar/org/cyberneko/html/SecuritySupport12.java

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jar/org/cyberneko/html/HTMLAugmentations.java  
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  - \* /opt/cola/permits/1420950518\_1663615930.2356396/0/neohtml-1-9-21-sources-5-jar/org/cyberneko/html/parsers/SAXParser.java
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  - /opt/cola/permits/1420950518\_1663615930.2356396/0/neohtml-1-9-21-sources-5-jar/org/cyberneko/html/HTMLTagBalancer.java
  - \* /opt/cola/permits/1420950518\_1663615930.2356396/0/neohtml-1-9-21-sources-5-jar/sample/TestHTMLDOMFragment.java
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  - /opt/cola/permits/1420950518\_1663615930.2356396/0/neohtml-1-9-21-sources-5-jar/sample/RemoveElements.java
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\* /opt/cola/permits/1420950518\_1663615930.2356396/0/neohtml-1-9-21-sources-5-jar/org/cyberneko/html/xercesbridge/XercesBridge\_2\_1.java  
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## 1.233 pytest-timestamper 0.0.9

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Upstream-Name: Apache Log4j 2

Source: <http://logging.apache.org/log4j/2.x/>

Files-Excluded: src/site

src/ide

.mvn

mvnw\*

Files: \*

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\* /opt/cola/permits/1450027489\_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-jar/jnr/enxio/channels/PollSelector.java  
\* /opt/cola/permits/1450027489\_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-jar/jnr/enxio/channels/WinLibCAdapter.java  
\* /opt/cola/permits/1450027489\_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-jar/jnr/enxio/channels/PollSelectionKey.java

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\* /opt/cola/permits/1450027489\_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-jar/jnr/enxio/channels/NativeServerSocketChannel.java  
\* /opt/cola/permits/1450027489\_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-jar/jnr/enxio/channels/NativeDeviceChannel.java  
\* /opt/cola/permits/1450027489\_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-

```
jar/jnr/enxio/channels/NativeFileSelectorProvider.java
*
/opt/cola/permits/1450027489_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-
jar/jnr/enxio/channels/Native.java
* /opt/cola/permits/1450027489_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-
jar/jnr/enxio/channels/NativeSelectorProvider.java
* /opt/cola/permits/1450027489_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-
jar/jnr/enxio/channels/KQSelector.java
* /opt/cola/permits/1450027489_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-
jar/jnr/enxio/channels/NativeSelectableChannel.java
* /opt/cola/permits/1450027489_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-
jar/jnr/enxio/channels/NativeSocketChannel.java
* /opt/cola/permits/1450027489_1666621885.6261685/0/jnr-enxio-0-32-13-sources-1-
jar/jnr/enxio/channels/KQSelectionKey.java
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\* /opt/cola/permits/1450027343\_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-jar/jnr/unixsocket/UnixDatagramSocket.java

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\* /opt/cola/permits/1450027343\_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-jar/jnr/unixsocket/impl/AbstractNativeServerSocketChannel.java

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\* /opt/cola/permits/1450027343\_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-jar/jnr/unixsocket/SockAddrUnix.java

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/opt/cola/permits/1450027343\_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-jar/jnr/unixsocket/UnixServerSocket.java  
\* /opt/cola/permits/1450027343\_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-jar/jnr/unixsocket/Native.java  
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jar/jnr/unixsocket/BindHandler.java  
* /opt/cola/permits/1450027343_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-  
jar/jnr/unixsocket/UnixDatagramChannel.java  
* /opt/cola/permits/1450027343_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-  
jar/jnr/unixsocket/impl/Common.java  
*  
/opt/cola/permits/1450027343_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-  
jar/jnr/unixsocket/UnixSocketOptions.java  
* /opt/cola/permits/1450027343_1666621663.460104/0/jnr-unixsocket-0-38-17-sources-1-  
jar/jnr/unixsocket/impl/AbstractNativeDatagramChannel.java
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## 1.246 hashstructure 1.1.0

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## 1.249 aws-aws-sdk-go-v2 1.12.5

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```

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns  
...func(*Options)) (*ListReceivedLicensesOutput, error) {  
    if params == nil {  
        params = &ListReceivedLicensesInput{ }  
    }  
}
```

```

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListReceivedLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:

```

```
//
```

```
//
```

```
*
```

```
// ProductSKU
```

```
//
```

```
// * Status
```

```
//
```

```
// * Fingerprint
```

```
//
```

```
// * IssuerName
```

```
//
```

```
// * Beneficiary
```

```
Filters []types.Filter
```

```
// Amazon Resource Names (ARNs) of the licenses.
```

```
LicenseArns []string
```

```
// Maximum number of results to return in a single call.
```

```
MaxResults *int32
```

```
// Token for the next set of results.
```

```
NextToken *string
```

```
noSmithyDocumentSerde
```

```
}
```

```

type ListReceivedLicensesOutput struct {

```

```
// Received license details.
```

```
Licenses []types.GrantedLicense
```

```
// Token for the next set of results.
```

```
NextToken *string
```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license for offline use.

```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {

```

```

params = &CheckoutBorrowLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.

```

```

//

```

```

// This member is required.

```

```

ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).

```

```

//

```

```

// This member is required.

```

```

DigitalSignatureMethod types.DigitalSignatureMethod

```

```

// License entitlements. Partial checkouts are not supported.

```

```

//

```

```

// This member is required.

```

```

Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.

```

```

//

```

```

// This member is required.

```

```

LicenseArn *string

```

```

// Information about constraints.

```

```

CheckoutMetadata []types.Metadata

```

```

// Node ID.

```

```

NodeId *string

```

```

noSmithyDocumentSerde

```

```

}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed
    []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}

```



```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.

```

```

//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}
name: License Scan

on: [pull_request]

```

```

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]

    steps:
      - name: Checkout target
        uses: actions/checkout@v2
        with:
          path: sdkbase
          ref: ${ github.base_ref }
      - name: Checkout this ref
        uses: actions/checkout@v2
        with:
          path: new-ref
          fetch-depth: 0
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
        ${{ github.sha }} > refDiffFiles.txt
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
      - name: Set up Python ${ matrix.python-version }
        uses: actions/setup-python@v2
        with:
          python-version: ${ matrix.python-version }
      # ScanCode
      - name: Self-configure scancode
        working-directory: ./scancode-toolkit
        run: ./scancode --help
      - name: Run Scan code on target
        run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
        toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
      - name: Run Scan code on pr ref
        run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
        toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
      # compare
      - name: License test
        run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses

```

```

are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow

```

```

// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
    err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```



```

    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the

```

```

// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type
CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.

```

```

Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata

```



```

return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU

```

```

//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //

```

```

// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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package grafana

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

```

```

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
    if
    err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

# 1.250 hashicorp-go-secure-stdlib-parseutil

## 0.1.7



## 1.250.1 Available under license :

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# 1.251 netty 4.1.86.Final



## 1.251.1 Available under license :

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Manifest-Version: 1.0  
Implementation-Title: Netty/Transport/Classes/Epoll  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.transport.classes.epoll  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.transport-classes-epoll  
Implementation-Version: 4.1.86.Final  
Built-By: root  
Bnd-LastModified: 1670851209269  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,io.netty.util.concurrent";version="4.1.86"  
Bundle-Name: Netty/Transport/Classes/Epoll  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_352  
Implementation-URL: <https://netty.io/netty-transport-classes-epoll/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-classes-epoll-4-1-86-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0  
Implementation-Title: Netty/Transport/Native/Unix/Common  
Bundle-Description: Static library which contains common unix utilities.  
Automatic-Module-Name: io.netty.transport.unix.common

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.transport-native-unix-common  
Implementation-Version: 4.1.86.Final  
Built-By: norman  
Bnd-LastModified: 1670855190526  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool:  
Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.unix;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.util";version="4.1.86"  
Bundle-Name: Netty/Transport/Native/Unix/Common  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-transport-native-unix-common/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-unix-common-4-1-86-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-classes-epoll-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/Handler/Proxy

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.handler.proxy

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.handler-proxy

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851161046

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.codec.socksx.v4;version="[4.1,5)",io.netty.handler.codec.socksx.v5;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.proxy;uses:="io.netty.channel,io.netty.handler.codec.http,io.netty.util.concurrent";version="4.1.86"

Bundle-Name: Netty/Handler/Proxy

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_352

Implementation-URL: <https://netty.io/netty-handler-proxy/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-proxy-4-1-86-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0

Implementation-Title: Netty/Resolver

Bundle-Description: Netty is an asynchronous event-driven network appl

ication framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.resolver

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855159282

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability:

osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.86"

Bundle-Name: Netty/Resolver

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-resolver/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-resolver-4-1-86-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0

Implementation-Title: Netty/Common

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.common

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.common

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855137664

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.annotate;resolution:=optional,javax.security.cert;resolution:=optional,org.apache.commons.logging;resolution:=optional;version="[1.2,2)",org.apache.log4j;resolution:=optional;version="[2.17,3)",org.apache.logging.log4j;resolution:=optional;version="[2.17,3)",org.apache.logging.log4j.message;resolution:=optional;version="[2.17,3)",org.apache.logging.log4j.spi;resolution:=optional;version="[2.17,3)",org.slf4j;resolution:=optional;version="[1.7,2)",org.slf4j.helpers;resolution:=optional;version="[1.7,2)",org.slf4j.spi;resolution:=optional;version="[1.7,2)",reactor.blockhound;resolution:=optional,reactor.blockhound.integration;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

DynamicImport-Package: \*

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty.util.internal";version="4.1.86",io.netty.util.collection;version="4.1.86",io.netty.util.concurrent;uses:="io.netty.util.internal";version="4.1.86",io.netty.util.internal;uses:="io.netty.util,io.netty.util.concurrent,io.netty.util.internal.logging,javax.security.cert,reactor.blockhound,reactor.blockhound.integration";version="4.1.86",io.netty.util.internal.logging;version="4.1.86",io.netty.util.internal.svm;version="4.1.86"

Bundle-Name: Netty/Common

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-common/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/maven/io.netty/netty-common/pom.xml  
\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/maven/io.netty/netty-buffer/pom.xml  
\*  
/opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec/pom.xml  
\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml  
\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/maven/io.netty/netty-handler/pom.xml  
\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml  
\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-socks-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-socks/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.epoll.linux.x86\_64

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-epoll

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851257748

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Bundle-Name: Netty/Transport/Native/Epoll

Bundle-Version:

4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_352

Implementation-URL: <https://netty.io/netty-transport-native-epoll/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-epoll-4-1-86-final-jar/META-INF/MANIFEST.MF

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io.netty.util.internal.Hidden\$NettyBlockHoundIntegration

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP2

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http2

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http2

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851101053

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)"

,io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.net.ssl,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.codec.http2;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http,io.netty.handler.logging,io.netty.handler.stream,io.netty.util,io.netty.util.collection,io.netty.util.concurrent";version="4.1.86"  
Bundle-Name: Netty/Codec/HTTP2  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_352  
Implementation-URL: <https://netty.io/netty-codec-http2/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-epoll-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-http2/pom.xml

\*



/opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-resolver-4-1-86-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-proxy-4-1-86-final-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Handler

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.handler

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.handler

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855199960

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.security.x509;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.netty.internal.tcnative;version="[2.0,3)";resolution:=optional,io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.crypto,javax.crypto.spec,javax.net.ssl,javax.security.auth.x500,javax.security.cert,org.bouncycastle.asn1.pkcs;version="[1.69,2)";resolution:=optional,org.bouncycastle.asn1.x500;version="[1.69,2)";resolution:=optional,org.bouncycastle.cert;version="[1.69,2)";resolution:=optional,org.bouncycastle.cert.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.jce.provider;version="[1.69,2)";resolution:=optional,org.bouncycastle.openssl;version="[1.69,2)";resolution:=optional,org.bouncycastle.openssl.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.operator;version="[1.69,2)";resolution:=optional,org.bouncycastle.operator.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.pkcs;version="[1.69,2)";resolution:=optional,org.conscrypt;version="[2.5,3)";resolution:=optional,sun.nio.ch;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.address;uses="io.netty.channel,io.ne

ty.resolver";version="4.1.86",io.netty.handler.flow;uses:="io.netty.channel";version="4.1.86",io.netty.handler.flush;uses:="io.netty.channel";version="4.1.86",io.netty.handler.ipfilter;uses:="io.netty.channel";version="4.1.86",io.netty.handler.logging;uses:="io.netty.channel,io.netty.util.internal.logging";version="4.1.86",io.netty.handler.pcap;uses:="io.netty.channel";version="4.1.86",io.netty.handler.ssl;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util,io.netty.util.concurrent,javax.crypto,javax.net.ssl";version="4.1.86",io.netty.handler.ssl.ocsp;uses:="io.netty.channel,io.netty.handler.ssl";version="4.1.86",io.netty.handler.ssl.util;uses:="javax.net.ssl,javax.security.auth.x500,javax.security.cert";version="4.1.86",io.netty.handler.stream;uses:="io.netty.buffer,io.netty.channel";version="4.1.86",io.netty.handler.timeout;uses:="io.netty.channel";version="4.1.86",io.netty.handler.traffic;uses:="io.netty.channel,io.netty.util.concurrent";version="4.1.86"

Bundle-Name: Netty/Handler

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-handler/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec-http2/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec-http/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/native-image/io.netty/netty-buffer/native-image.properties

\*

/opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/native-image/io.netty/netty-common/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Implementation-Title: Netty/Codec/Socks  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.codec.socks  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.codec-socks  
Implementation-Version: 4.1.86.Final  
Built-By: root  
Bnd-LastModified: 1670851140833  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.codec.socks;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.socksx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx.v5";version="4.1.86",io.netty.handler.codec.socksx.v4;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.86",io.netty.handler.codec.socksx.v5;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.86"  
Bundle-Name: Netty/Codec/Socks  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_352  
Implementation-URL: <https://netty.io/netty-codec-socks/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-socks-4-1-86-final-jar/META-INF/MANIFEST.MF

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd">

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<modelVersion>4.0.0</modelVersion>

<artifactId>jctools-core</artifactId>
<groupId>org.jctools</groupId>
<version>3.1.0</version>
<name>Java Concurrency Tools Core Library</name>
<description>Java Concurrency Tools Core Library</description>
<packaging>bundle</packaging>

<dependencies>
<dependency>
  <groupId>org.hamcrest</groupId>
  <artifactId>hamcrest-all</artifactId>
  <version>${hamcrest.version}</version>
  <scope>test</scope>
</dependency>

<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>${junit.version}</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>com.google.guava</groupId>
<artifactId>guava-testlib</artifactId>
<version>${guava-testlib.version}</version>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>3.0.0-M3</version>
  <configuration>
  <includes>
  <include>*</include>
  </includes>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>4.2.1</version>
  <extensions>>true</extensions>
```

```

<configuration>
  <instructions>
    <Import-Package>sun.misc;resolution:=optional</Import-Package>
  </instructions>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.2.0</version>
  <executions>
    <execution>
      <id>attach-sources</id>
      <phase>verify</phase>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>

```

```
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
```

```
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

#### Found

in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-unix-common-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Codec

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855178734

Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: https://netty.io/  
Bundle-Vendor: The Netty Project  
Import-Package: com.aayushatharva.brotli4j;resolution:=optional,com.aayushatharva.brotli4j.decoder;resolution:=optional,com.aayushatharva.brotli4j.encoder;resolution:=optional,com.github.luben.zstd;version="[1.5,2)";resolution:=optional,com.google.protobuf;version="[2.6,3)";resolution:=optional,com.google.protobuf.nano;resolution:=optional,com.jcraft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf.util;version="[1.0,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",lzma.sdk;resolution:=optional,lzma.sdk.lzma;resolution:=optional,net.jpountz.lz4;resolution:=optional,net.jpountz.xxhash;resolution:=optional,org.jboss.marshalling;resolution:=optional,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package:  
io.netty.handler.codec;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.util";version="4.1.86",io.netty.handler.codec.base64;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.bytes;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.compression;uses:="com.aayushatharva.brotli4j.encoder,io.netty.buffer,io.netty.channel,io.netty.handler.codec,net.jpountz.lz4";version="4.1.86",io.netty.handler.codec.json;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.marshalling;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,org.jboss.marshalling";version="4.1.86",io.netty.handler.codec.protobuf;uses:="com.google.protobuf,com.google.protobuf.nano,io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.serialization;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.string;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.xml;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86"

Bundle-Name: Netty/Codec  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin



Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-codec/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855212920

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.netty.handler.stream,io.netty.util";version="4.1.86",io.netty.handler.codec.http.cookie;version="4.1.86",io.netty.handler.codec.http.cors;uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.86",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util";version="4.1.86",io.netty.handler.codec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.nett

y.util,io.netty.util.internal.logging";version="4.1.86",io.netty.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http.websocketx";version="4.1.86",io.netty.handler.codec.http.websocketx.extensions.compression;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx.extensions";version="4.1.86",io.netty.handler.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.util";version="4.1.86",io.netty.handler.codec.spdy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.util";version="4.1.86"

Bundle-Name:

Netty/Codec/HTTP

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-codec-http/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Transport

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855167311

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.resolver,io.netty.util";version="4.1.86",io.netty.channel;uses:="io.net

ty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent";  
version="4.1.86",io.netty.channel.embedded;uses:="io.netty.channel";v  
ersion="4.1.86",io.netty.channel.group;uses:="io.netty.channel,io.net  
ty.util.concurrent";version="4.1.86",io.netty.channel.internal;versio  
n="4.1.86",io.netty.channel.local;uses:="io.netty.channel";version="4  
.1.86",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,i  
o.netty.util,io.netty.util.concurrent";version="4.1.86",io.netty.chan  
nel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.86",io.  
netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.nett  
y.util.concurrent";version="4.1.86",io.netty.channel.socket;uses:="io  
.netty.buffer,io.netty.channel,io.netty.util";version="4.1.86",io.net  
ty.channel.socket.nio;uses:="io.netty.buffer,io.netty.channel,io.nett  
y.channel.nio,io.netty.channel.socket";version="4.1.86",io.netty.chan  
nel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.netty.chann  
el.oio,io.netty.channel.socket";version="4.1.86"

Bundle-Name: Netty/Transport

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-transport/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Buffer

Bundle-Description: Netty is an asynchronous event-driven network appl  
ication framework for rapid development of maintainable high perfo  
rmance protocol servers and clients.

Automatic-Module-Name: io.netty.buffer

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.buffer

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855150807

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurre  
nt;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.nett  
y.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opti  
onal,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.e  
clipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability:

osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.86"  
,io.netty.buffer.search;uses:="io.netty.util";version="4.1.86"  
Bundle-Name: Netty/Buffer  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-buffer/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/MANIFEST.MF

## 1.252 netty-handler 4.1.86.Final

### 1.252.1 Available under license :

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 */
```

Found in path(s):

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/package-info.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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 * under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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Found in path(s):

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemReader.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-

```

jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRule.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

```



\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Ciphers.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslContextOption.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

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jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java  
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jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
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/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
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jar/io/netty/handler/address/package-info.java

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* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
*
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jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
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jar/io/netty/handler/stream/ChunkedNioFile.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/stream/ChunkedFile.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/timeout/IdleStateEvent.java  
\*  
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jar/io/netty/handler/stream/package-info.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/timeout/IdleState.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/util/package-info.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/NotSslRecordException.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/stream/ChunkedNioStream.java  
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jar/io/netty/handler/ssl/PemEncoded.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/DelegatingSslContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/PemPrivateKey.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/OpenSslCertificateException.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
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jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/pcap/package-info.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
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/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
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/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

## 1.253 netty-codec-http 4.1.86.Final

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java  
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jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/Cookie.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java  
\*



/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpResponse.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/DefaultHttpResponse.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/HttpObjectEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/HttpMethod.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/FileUpload.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/HttpData.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/HttpHeaders.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/spdy/SpdySession.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/HttpRequest.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
\*  
/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/LastHttpContent.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/QueryStringDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/CookieDecoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/HttpVersion.java

```
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/rtsp/package-info.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/HttpResponseDecoder.java
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* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
*
/opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMixedHttpData.java

\*

/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/TooLongHttpLineException.java

\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/TooLongHttpContentException.java

\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/TooLongHttpHeaderException.java

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java

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\* Adaptation of <https://bjoern.hoehrmann.de/utf-8/decoder/dfa/>

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codecs/http/HttpMessageDecoderResult.java

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

\*

/opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NameResolver.java

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java  
\*  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/DefaultNameResolver.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/InetAddressNameResolver.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AddressResolver.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/CompositeNameResolver.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileParser.java  
\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-

jar/io/netty/resolver/HostsFileEntriesResolver.java

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Found in path(s):

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-

jar/io/netty/resolver/RoundRobinInetAddressResolver.java

# 1.255 netty-codec 4.1.86.Final

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-

jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\*

```
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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*/
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/META-INF/native-image/io.netty/netty-codec/native-image.properties

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/Headers.java

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Found in path(s):

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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/\*\*

\* Utility class for {@link ByteBuf} that encodes and decodes to and from

\* [Base64](https://en.wikipedia.org/wiki/Base64) notation.

\* <p>

\* The encoding and decoding algorithm in this class has been derived from

\* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)

\* [Base64 Encoder/Decoder](#).

\*/

Found in path(s):

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/base64/Base64.java

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\*/  
 /\*\*

\* A decoder that splits the received { @link ByteBuf}s dynamically by the  
 \* value of the length field in the message. It is particularly useful when you  
 \* decode a binary message which has an integer header field that represents the  
 \* length of the message body or the whole message.

\*

<p>

\* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
 \* that it can decode any message with a length field, which is often seen in  
 \* proprietary client-server protocols. Here are some example that will give  
 \* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

\* <pre>

```
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

```
* +-----+-----+      +-----+-----+
```

```
* | Length | Actual Content
```

```
|---->| Length | Actual Content |
```

```
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
```

```
* +-----+-----+      +-----+-----+
```

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, strip header</h3>

\*

\* Because we can get the length of the content by calling

\* {@link ByteBuf#readableBytes()}, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

\* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)

```
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
```

```
* </pre>
```

\* `2` bytes length field at offset 0, do not strip header, the length field represents the length of the whole message

\* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by `2`, we specify `-2` as `lengthAdjustment` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
```

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

```
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
```

```
* </pre>
```

\* `3` bytes length field at the end of 5 bytes header, do not strip header

\* The following message is a simple variation of the first example. An extra header value is prepended to the message. `lengthAdjustment` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
* <pre>
```



```

* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |       | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |       | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +

```

LEN)

\*

```
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
```

\*

\* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,  
\* strip the first header field and the length field, the length field  
\* represents the length of the whole message`</h3>`

\*

\* Let's give another twist to the previous example. The only difference from  
\* the previous example is that the length field represents the length of the  
\* whole message instead of the message body, just like the third example.  
\* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.  
\* Please note that we don't need to take the length of HDR2 into account  
\* because  
the length field already includes the whole header length.

\* `<pre>`

\* `lengthFieldOffset = 1`

\* `lengthFieldLength = 2`

\* `<b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)`

\* `<b>initialBytesToStrip</b> = <b>3</b>`

\*

```
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
```

\*

\* @see `LengthFieldPrepender`

\*/

Found in path(s):

\* `/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java`

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionState.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderException.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java

\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-

jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/MessageToByteEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/DecoderResult.java  
\*  
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jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/xml/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/package-info.java  
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jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolver.java

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*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/base64/package-info.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/package-info.java  
\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/EncoderException.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Zstd.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Brotli.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java



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* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
```

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jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
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* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
```

# 1.256 netty-transport 4.1.86.Final

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jar/io/netty/bootstrap/FailedChannel.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

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/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/PendingBytesTracker.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/internal/ChannelUtils.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/ChannelOutputShutdownException.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java

\*

/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/internal/package-info.java

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jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java

\*

/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/ChannelFactory.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-

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jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
*
/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
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jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/AbstractServerChannel.java

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/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/Bootstrap.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java

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/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelPromise.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/CombinedIterator.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/package-info.java

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/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelHandlerContext.java  
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/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ServerChannel.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelOption.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-

jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/ChannelInitializer.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/DefaultChannelConfig.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/ChannelOutboundHandler.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/oio/package-info.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/nio/NioTask.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/oio/OioEventLoopGroup.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/CompleteChannelFuture.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/Channel.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
*
/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
*
/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/META-
```

INF/maven/io.netty/netty-transport/pom.xml

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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Found in path(s):

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/AbstractEventLoop.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\*

```
/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
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```

```
*/
```

```
/**
```

```
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.
```

```
*
```

```
* 

### Sub-types


```

```
* <p>
```

```
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:
```

```
* <ul>
```

```
* <li>{ @link
```

```
ChannelInboundHandler } to handle inbound I/O events, and</li>
```

```
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
```

```
* </ul>
```

```
* </p>
```

```
* <p>
```

```
* Alternatively, the following adapter classes are provided for your convenience:
```

```
* <ul>
```

```
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
```

```
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
```

```
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
```

```
* </ul>
```

```
* </p>
```

```
* <p>
```

```
* For more information, please refer to the documentation of each subtype.
```

```
* </p>
```

```

*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt;Message &gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.

```



```
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
*   { @code @Override }
*   public void initChannel({ @link Channel } channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
*
* </pre>
```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances.

\* In such a case, you can use { @link AttributeKey}s which is provided by

\* { @link ChannelHandlerContext}:

```
* <pre>
```

```
* public interface Message {
```

```
*   // your methods here
```

```
* }
```

```
*
```

```
* { @code @Sharable }
```

```
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;&gt;Message&gt; {
```

```
*   private final { @link AttributeKey}&lt;&gt;{ @link Boolean}&gt; auth =
```

```
*     { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
```

```
*
```

```
*   { @code @Override }
```

```
*   public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
```

```
*     { @link Attribute}&lt;&gt;{ @link Boolean}&gt; attr = ctx.attr(auth);
```

```
*     if (message instanceof LoginMessage) {
```

```
*       authenticate((LoginMessage) o);
```

```
*       <b>attr.set(true)</b>;
```

```
*     } else (message instanceof GetDataMessage) {
```

```
*       if (<b>Boolean.TRUE.equals(attr.get())</b>) {
```

```
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
```

```
*       } else {
```

```
*         fail();
```

```
*       }
```

```
*     }
```

```
*   }
```

```
*   ...
```

```
* }
```

```
* </pre>
```

\* Now that the

state of the handler is attached to the { @link ChannelHandlerContext}, you can add the

same handler instance to different pipelines:

```
* <pre>
```

```
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
```

```
*
```

```

* private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
* { @code @Override }
* public void initChannel({ @link Channel } channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
* }
* }
* </pre>

```

\* <h4>The { @code @Sharable } annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey },  
 \* you might have noticed the { @code @Sharable } annotation.

\* <p>

\* If a { @link ChannelHandler } is annotated with the { @code @Sharable }  
 \* annotation, it means you can create an instance of the handler just once and  
 \* add it to one or more { @link ChannelPipeline }s multiple times without  
 \* a race condition.

\* <p>

\* If this annotation is not specified, you have to create  
 a new handler  
 \* instance every time you add it to a pipeline because it has unshared state  
 \* such as member variables.

\* <p>

\* This annotation is provided for documentation purpose, just like  
 \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

\*

\* <h3>Additional resources worth reading</h3>

\* <p>

\* Please refer to the { @link ChannelHandler }, and  
 \* { @link ChannelPipeline } to find out more about inbound and outbound operations,  
 \* what fundamental differences they have, how they flow in a pipeline, and how to handle  
 \* the operation in your application.

\*/

Found in path(s):

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
 jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

\*

\*/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

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Found in path(s):

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DuplexChannel.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/SelectStrategy.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-

```
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
*
/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
```

## 1.257 netty-transport-native-unix-common

### 4.1.86.Final

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* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_util.h
*
/opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_util.c
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
```

```
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_limits.c
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
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```

```
jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/DomainDatagramChannel.java
*
/opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/DomainDatagramPacket.java
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jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_filedescriptor.c
*
/opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_errors.h
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
```

\*  
/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/Socket.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/netty\_unix\_socket.h  
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/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/IovArray.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java  
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\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java

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/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java

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\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/netty\_unix\_buffer.h

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/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/netty\_unix\_buffer.c

\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java

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Matthias Urlichs <smurf@debian.org>.

It is now maintained by Andreas Metzler <ametzler@debian.org>, Eric Dorland <eric@debian.org> and James Westby <jw+debian@jameswestby.net>

It was downloaded from <https://ftp.gnu.org/gnu/libtasn1/>

Upstream Authors: Fabio Fiorina <fiorinaf@gnutls.org>

Simon Josefsson <jas@extundo.com>

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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root function must still compute square roots.)

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a) Accompany

the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

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Version 3, 29 June 2007

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The

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# 1.260 objenesis 2.1

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```
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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```
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
```

```
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
```

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/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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/**
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
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 * Set the { @code TCP_QUICKACK } option on the socket.
 * See <a href="https://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
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*/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
*
/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
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/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
*
```

```
/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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## 1.263 platformdirs 2.6.2

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## 1.264 x-time-rate 0.3.0

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jar/org/dom4j/io/DOMSAXContentHandler.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

jar/org/dom4j/tree/DefaultComment.java

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/opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

jar/org/dom4j/util/XMLErrorHandler.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/rule/RuleSet.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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/opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBWriter.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/rule/Action.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-

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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/DocumentType.java  
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/opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/rule/pattern/DefaultPattern.java  
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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/Namespace.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultProcessingInstruction.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractElement.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/io/STAXEventReader.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/Text.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMDocumentFactory.java  
\*  
/opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/VisitorSupport.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMNodeHelper.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanAttribute.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMCDATA.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/swing/XMLTableColumnDefinition.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanElement.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/io/DOMWriter.java  
\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/tree/ElementNameIterator.java



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\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/io/SAXHelper.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/io/XMLWriter.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/io/SAXReader.java

\* /opt/cola/permits/1556132317\_1675708968.135342/0/dom4j-2-1-4-sources-jar/org/dom4j/DocumentHelper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/StringCodec.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java  
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jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
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jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java
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jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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jar/com/thoughtworks/xstream/converters/extended/OptionalIntConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
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jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XomWriter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDomWriter.java  
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jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java  
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jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java  
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
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jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java  
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/core/JVM.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/security/InputManipulationException.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/security/AbstractSecurityException.java  
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jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java  
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jar/com/thoughtworks/xstream/io/AbstractReader.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/MarshallingStrategy.java  
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jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/AnyTypePermission.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/TypePermission.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/SecurityMapper.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/NoTypePermission.java

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jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
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jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java

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c.t.x.converters.reflection.SerializationMemberInvoker.  
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jar/com/thoughtworks/xstream/core/util/SerializationMembers.java  
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jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java  
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jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java

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jar/com/thoughtworks/xstream/core/ClassLoaderReference.java

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jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java

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jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java  
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jar/com/thoughtworks/xstream/core/util/FastStack.java  
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\* Created on 24. August 2004 by Joe Walnes

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java

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\* Created on 29. September 2004 by James Strachan

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/StaxReader.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/SubjectConverter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/SequenceGenerator.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/RegexPatternConverter.java

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\* Created on 06. July 2006 by Guilherme Silveira

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/XmlArrayList.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/SingleValueConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/core/util/ClassLoaderReference.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/EncodedByteArrayConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/basic/DateConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/ConverterMatcher.java

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*/
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```
*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
```

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*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java
```

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java

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jar/com/thoughtworks/xstream/io/xml/TraxSource.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/PresortedSet.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/Sun14ReflectionProvider.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementConverter.java  
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jar/com/thoughtworks/xstream/io/path/PathTrackingWriter.java  
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jar/com/thoughtworks/xstream/converters/collections/CharArrayConverter.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/core/TreeMarshaller.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/StatefulWriter.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/XStreamer.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java

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* Created on 30. July 2011 by Joerg Schaible  
*/
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Found in path(s):

```
*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
```

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*  
* Created on 16. September 2005 by Mauro Talevi  
*/
```

Found in path(s):

```
*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/annotations/XStreamConverter.java
```

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* Created on 06. February 2005 by Joe Walnes  
*/
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/PrioritizedList.java

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\* Created on 02. May 2009 by Joerg Schaible

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java

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\* Created on 29. November 2022 by Joerg Schaible

\*/

Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/AtomicReferenceConverter.java

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\* Created on 09. October 2008 by Joerg Schaible

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/HierarchicalStreams.java

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\* Created on 28. June 2006 by Guilherme Silveira

\*/

Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/XmlSet.java

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\* Created on 10. April 2007 by Guilherme Silveira

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java

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\* Created on 05. May 2017 by Joerg Schaible

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/mapper/LambdaMapper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/io/path/package.html

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\* Created on 22. June 2006 by Mauro Talevi

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/security/ForbiddenClassException.java

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 * Created on 25. March 2006 by Joerg Schaible
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Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java
```

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 * Created on 13. June 2006 by Guilherme Silveira
 */
```

Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/persistence/XmlMap.java
```

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 * Created on 14. October 2011 by Joerg Schaible
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Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
```

jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java  
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```
/*
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 *
 * Created on 12.10.2010 by Joerg Schaible, extracted from TreeMapConverter.
 */
```

Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/PresortedMap.java  
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 * Created on 29. April 2009 by Joerg Schaible
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/WstxDriver.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/Token.java  
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```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
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```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AnnotationMapper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/ConverterLookup.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/package.html

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/Primitives.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java

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\* Created on 13. January 2017 by Matej Cimbor

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java

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\* Created on 01. March 2013 by Joerg Schaible, moved from package

\* com.thoughtworks.xstream.converters.reflection.

\*/

Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java

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```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/mapper/EnumMapper.java
```

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```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/basic/NullConverter.java
```

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```

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/YearConverter.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/MapConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/MapperWrapper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/FileConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/xml/DomDriver.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/AbstractDriver.java

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* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java  
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* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/FontConverter.java  
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* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
```

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* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java
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* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/io/xml/XppDriver.java
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractXmlReader.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/Annotations.java  
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/\*\*  
\* A SAX { @link org.xml.sax.XMLReader parser } that acts as an XStream  
\* { @link com.thoughtworks.xstream.io.HierarchicalStreamWriter } to enable direct generation of a

```

* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({ @link
#parse(java.lang.String)}
* and { @link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
* { @link #SOURCE_OBJECT_LIST_PROPERTY } to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* { @link #setProperty SAX property mechanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of { @link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* { @link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* { @link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
*
* @author Laurent Bihanic
*/
/**
* Sets the value of a property.
* <p>
* The property name is any fully-qualified URI. It is
* possible for an XMLReader to recognize a property name but
* to be unable to set its value.</p>
* <p>
* XMLReaders are not required to recognize setting any
* specific property names, though a core set is provided with
* SAX2.</p>
* <p>
* Some property values may be immutable or mutable only
* in specific contexts, such as before, during, or after
* a parse.</p>
* <p>
* This method is also the standard mechanism for setting
* extended handlers.</p>
* <p>
* <strong>Note</strong>: This implementation only supports two
* (proprietary) properties: { @link #CONFIGURED_XSTREAM_PROPERTY }
* and { @link #SOURCE_OBJECT_LIST_PROPERTY }.</p>
*
* @param name the property name, which is a fully-qualified URI.
* @param value the requested value for the property.

```

```

* @throws SAXNotRecognizedException when the XMLReader does not
*         recognize the property name.
* @throws SAXNotSupportedException when the XMLReader recognizes
*         the property name but cannot set
*         the requested value.
* @see #getProperty
*/
/**
* Parses an XML document
from a system identifier (URI).
* <p>
* This method is a shortcut for the common case of reading a
* document from a system identifier. It is the exact
* equivalent of the following:<p>
* <blockquote>
* <pre>
*     parse(new InputSource(systemId));
* </pre>
* </blockquote>
* <p>
* If the system identifier is a URL, it must be fully resolved
* by the application before it is passed to the parser.</p>
* <p>
* <strong>Note</strong>: As a custom SAX parser, this class
* ignores the <code>systemId</code> argument of this method
* and relies on the proprietary SAX property
* { @link #SOURCE_OBJECT_LIST_PROPERTY }) to define the list of
* objects to serialize.</p>
*
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
*         another exception.
* @see #parse(org.xml.sax.InputSource)
*/

```

Found in path(s):

```

*
/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumMapConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/TypedNull.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/ConverterRegistry.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java

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jar/com/thoughtworks/xstream/converters/basic/URICConverter.java  
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\* Created on 06. April 2004 by Joe Walnes  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/core/util/Fields.java  
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: Apache Maven  
Built-By: joehni  
Build-Jdk: 1.8.0\_312  
Specification-Title: XStream Core  
Specification-Vendor: XStream  
Implementation-Title: XStream Core  
Implementation-Version: 1.4.20  
Implementation-Vendor-Id: com.thoughtworks.xstream  
Implementation-Vendor: XStream  
Bundle-License: BSD-3-Clause  
Bundle-ManifestVersion: 2  
Bundle-Name: XStream Core Sources  
Bundle-SymbolicName: xstream.sources  
Bundle-Vendor: XStream Sources  
Bundle-Version: 1.4.20

Eclipse-SourceBundle: xstream;version=1.4.20

Specification-Version: 1.4

X-Build-Os: Linux

X-Build-Time: 2022-12-23T23:21:05Z

X-Builder: Maven 3.8.6

X-Compile-Source: 1.4

X-Compile-Target: 1.4

Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/WriterWrapper.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/NoPermission.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/NullPermission.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/OptionalConverter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/XStreamException.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/io/xml/XppReader.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/Pool.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/LambdaConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java

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*/
```

Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/naming/NameCoder.java
```

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Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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```

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```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
```

jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java  
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* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java  
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java  
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Found in path(s):

```
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java  
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/ByteConverter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XomReader.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DomWriter.java

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Found in path(s):

```
*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
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Found in path(s):

```
*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/core/BaseException.java
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```

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```

Found in path(s):

```
*/opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
```

jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java

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\* Created on 24. February 2016 by Joerg Schaible, factored out of ConversionException.

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/ErrorWritingException.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/ErrorWriter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/OptionalDoubleConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java

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Found in path(s):

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/JsonWriter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java

\*

/opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/FastField.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlTimestampConverter.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/LongConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/CompactWriter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java  
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jar/com/thoughtworks/xstream/converters/extended/JavaClassConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/AbstractWriter.java  
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jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java  
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jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java  
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jar/com/thoughtworks/xstream/converters/basic/URLConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/core/AbstractReferenceUnmarshaller.java  
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jar/com/thoughtworks/xstream/converters/collections/ArrayConverter.java
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/path/Path.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/StreamStrategy.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/PathConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AttributeMapper.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java

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jar/com/thoughtworks/xstream/converters/ErrorReporter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java  
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jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java

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Found in path(s):

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java  
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jar/com/thoughtworks/xstream/converters/extended/AtomicLongConverter.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-  
jar/com/thoughtworks/xstream/converters/extended/AtomicIntegerConverter.java  
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jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/path/PathTracker.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DomReader.java  
\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/InitializationException.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java

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jar/com/thoughtworks/xstream/mapper/ArrayMapper.java  
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jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java  
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jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java  
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jar/com/thoughtworks/xstream/mapper/DefaultImplementationsMapper.java  
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jar/com/thoughtworks/xstream/io/xml/AbstractPullParser.java  
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jar/com/thoughtworks/xstream/converters/time/package.html  
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jar/com/thoughtworks/xstream/mapper/CachingMapper.java

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jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1561089284_1676013500.4305644/0/xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
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jar/com/thoughtworks/xstream/converters/reflection/ReflectionProvider.java
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jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java

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jar/com/thoughtworks/xstream/mapper/ImmutableTypesMapper.java

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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/io/xml/DocumentReader.java

\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java

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jar/com/thoughtworks/xstream/converters/javabean/JavaBeanProvider.java  
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jar/com/thoughtworks/xstream/converters/Converter.java  
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jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java  
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jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java  
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jar/com/thoughtworks/xstream/core/util/ArrayIterator.java  
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\* /opt/cola/permits/1561089284\_1676013500.4305644/0/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java

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/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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 */
```

Found in path(s):

```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

## 1.281 java-dogstatsd-client 4.2.0

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com.github.jnr:jffi 1.2.23

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com.github.jnr:jnr-unixsocket 0.36

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com.github.jnr.jnr-x86asm 1.0.2

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org.ow2.asm asm 7.1

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org.ow2.asm asm-commons 7.1

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## 1.282 aws-aws-sdk-go-v2 1.18.6

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```
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```

```
package grafana
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
    if params == nil {
```

```
        params = &AssociateLicenseInput{}
```

```

}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)

```

```

if
err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

```

    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
  uses: actions/setup-python@v2
  with:
    python-version: ${{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }
}

```



```

}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.

```

```

Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{

```

```

Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.

```

```

WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```



```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.

```

License \*types.License

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.

```

NextToken \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
```

```

(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)

```



```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),

```

```

middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns  
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
    if params == nil {  
        params = &CheckoutBorrowLicenseInput{ }  
    }  
}
```

```
result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,  
c.addOperationCheckoutBorrowLicenseMiddlewares)  
if err != nil {
```

```

return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

```



```

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.

```

```
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
```

```

// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
    err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary

```

```

Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
}

```



```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
```

## 1.283 sed 4.7-1

### 1.283.1 Available under license :

This is the Debian GNU/Linux prepackaged version of sed - the GNU stream oriented editor.

This package was assembled from sources obtained from:

<ftp://ftp.gnu.org/gnu/sed/>

It is currently maintained by Clint Adams <[clint@debian.org](mailto:clint@debian.org)>

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## 1.284 libmnl 1.0.4-3

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
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src/pmap\_clnt.c

src/pmap\_getmaps.c  
src/pmap\_getport.c  
src/pmap\_prot.c  
src/pmap\_prot2.c  
src/pmap\_rmt.c  
src/rpc\_callmsg.c  
src/rpc\_com.h  
src/rpc\_commdata.c  
src/rpc\_dtablesize.c  
src/rpc\_generic.c  
src/rpc\_prot.c  
src/rpc\_soc.c  
src/rpcb\_prot.c  
src/rpcb\_st\_xdr.c  
src/rtime.c  
src/svc\_auth.c  
src/svc\_auth\_des.c  
src/svc\_auth\_unix.c  
src/svc\_dg.c  
src/svc\_generic.c  
src/svc\_raw.c  
src/svc\_simple.c  
src/svc\_vc.c  
src/xdr\_array.c  
src/xdr\_float.c  
src/xdr\_mem.c  
src/xdr\_rec.c  
src/xdr\_reference.c  
src/xdr\_sizeof.c  
src/xdr\_stdio.c  
tirpc/rpc/auth\_des.h  
tirpc/rpc/auth\_unix.h  
tirpc/rpc/des\_crypt.h  
tirpc/rpc/pmap\_clnt.h  
tirpc/rpc/pmap\_prot.h  
tirpc/rpc/pmap\_rmt.h  
tirpc/rpc/raw.h  
tirpc/rpc/rpc\_com.h

tirpc/rpc/rpc\_msg.h  
tirpc/rpc/rpcb\_clnt.h  
tirpc/rpc/rpcb\_prot.h  
tirpc/rpc/svc\_auth.h

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Files: Makefile.in  
aclocal.m4  
compile  
config.guess  
config.sub  
configure  
depcomp  
doc/Makefile.in  
install-sh  
ltmain.sh  
m4/libtool.m4  
m4/ltoptions.m4  
m4/ltsugar.m4  
m4/ltversion.m4  
m4/lt~obsolete.m4  
man/Makefile.in  
missing  
src/Makefile.in

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Files: man/rpc\_gss\_get\_error.3t  
man/rpc\_gss\_get\_mech\_info.3t  
man/rpc\_gss\_get\_mechanisms.3t  
man/rpc\_gss\_get\_principal\_name.3t  
man/rpc\_gss\_get\_versions.3t  
man/rpc\_gss\_getcred.3t  
man/rpc\_gss\_is\_installed.3t  
man/rpc\_gss\_max\_data\_length.3t  
man/rpc\_gss\_mech\_to\_oid.3t  
man/rpc\_gss\_qop\_to\_num.3t  
man/rpc\_gss\_seccreate.3t  
man/rpc\_gss\_set\_callback.3t  
man/rpc\_gss\_set\_defaults.3t  
man/rpc\_gss\_set\_svc\_name.3t  
man/rpc\_gss\_svc\_max\_data\_length.3t  
man/rpcsec\_gss.3t

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Files: src/auth\_gss.c  
src/authgss\_prot.c  
src/svc\_auth\_gss.c



src/svc\_auth\_none.c  
tirpc/rpc/auth\_gss.h  
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Files: src/binddynport.c  
src/rpc\_gss\_utils.c  
tirpc/rpc/rpcsec\_gss.h  
tirpc/rpc/svc\_auth\_gss.h

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src/rpcb\_clnt.c

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Files: src/crypt\_client.c  
tirpc/rpcsvc/crypt.x

Copyright: 1996 Bill Paul <wpaul@ctr.columbia.edu>.

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Files: src/des\_impl.c

Copyright: 1992 Eric Young Collected from libdes and modified for SECURE RPC Martin Kuck 1994

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Files: tirc/rpc/svc\_mt.h  
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Files: src/getpeereid.c  
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Files: tirc/un-namespace.h  
Copyright: 2001 Daniel Eischen <deischen@FreeBSD.org>.  
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Files: tirc/rpc/rpcent.h  
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Files: src/epoll\_sub.c  
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Files: tirc/rpc/clnt.h  
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## 1.289 msgpack 1.0.5

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## 1.290 okhttp 3.12.15

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Found in path(s):

```
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/StreamResetException.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/CallServerInterceptor.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/WebSocketListener.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/WebSocket.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/platform/Jdk9Platform.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/UnrepeatableRequestBody.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/cache2/FileOperator.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/platform/AndroidPlatform.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/tls/BasicTrustRootIndex.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/ws/RealWebSocket.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/ConnectionShutdownException.java
```

```
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/cache2/Relay.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/RealInterceptorChain.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
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* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Response.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Route.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/RequestLine.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/ErrorCode.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/connection/RouteDatabase.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Handshake.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/Hpack.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Dispatcher.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/NamedRunnable.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/Http2.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/cache/InternalCache.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Request.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/StatusLine.java
```



\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/cache/CacheStrategy.java  
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\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Interceptor.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/platform/ConscryptPlatform.java  
\*  
/opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Callback.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Challenge.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Call.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/Version.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/ws/WebSocketReader.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/ws/WebSocketWriter.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/ConnectionSpec.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Protocol.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/ResponseBody.java  
\*  
/opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/TlsVersion.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/cache/CacheRequest.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Credentials.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/RealCall.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/CertificatePinner.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/FormBody.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/CipherSuite.java

```
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/MultipartBody.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/Internal.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/PushObserver.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/HttpMethod.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http2/Header.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/RequestBody.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/RealResponseBody.java
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Found in path(s):

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/OkHttpClient.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-

jar/okhttp3/internal/http2/Settings.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Dns.java

\*

/opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-

jar/okhttp3/internal/connection/RouteSelector.java

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\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-

jar/okhttp3/internal/http/HttpHeaders.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-

jar/okhttp3/internal/http2/Http2Codec.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Address.java

\*

/opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/Util.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-

jar/okhttp3/internal/http/HttpCodec.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-

jar/okhttp3/internal/http1/Http1Codec.java

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\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/http2/Http2Writer.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/cache/DiskLruCache.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/http2/Http2Reader.java  
\*  
/opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/http2/Http2Connection.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/http2/Http2Stream.java  
\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/http/HttpDate.java  
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Found in path(s):

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/CookieJar.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Cookie.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/connection/StreamAllocation.java

\*

/opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/HttpUrl.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/io/FileSystem.java

\* /opt/cola/permits/1602520863\_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/connection/RouteException.java

```
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/cache/FaultHidingSink.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Authenticator.java
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Found in path(s):

```
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/connection/ConnectInterceptor.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/cache/CacheInterceptor.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/ConnectionPool.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/http/BridgeInterceptor.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/tls/CertificateChainCleaner.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/tls/DistinguishedNameParser.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-
jar/okhttp3/internal/connection/RealConnection.java
*
/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Headers.java
* /opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/Connection.java
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Found in path(s):

```
*/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/EventListener.java
*/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java
```

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Found in path(s):

```
*/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/annotations/EverythingIsNonNull.java
*/opt/cola/permits/1602520863_1679316681.6879053/0/okhttp-3-12-15-sources-jar/okhttp3/internal/proxy/NullProxySelector.java
```

## 1.291 json-java 20090211

## 1.291.1 Available under license :

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## 1.292 error\_prone\_annotations 2.18.0

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## 1.293 aws-aws-sdk-go-v2 1.9.24

### 1.293.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"
```

```

)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
    if
    err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:



python-version: [3.9]

steps:

```
- name: Checkout target
  uses: actions/checkout@v2
  with:
    path: sdkbase
    ref: ${{ github.base_ref }}
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
  uses: actions/setup-python@v2
  with:
    python-version: ${{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.
```

package licensemanager

```
import (
    "context"
```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {

```

```

    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
}

```

```

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

type

```
CheckoutLicenseInput struct {
```

```
// Checkout type.
```

```
//
```

```
// This member is required.
```

```
CheckoutType types.CheckoutType
```

```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
```

```
//
```

```
// This member is required.
```

```
ClientToken *string
```

```
// License entitlements.
```

```
//
```

```
// This member is required.
```

```
Entitlements []types.EntitlementData
```

```
// Key fingerprint identifying the license.
```

```
//
```

```
// This member is required.
```

```
KeyFingerprint *string
```

```
// Product SKU.
```

```
//
```

```
// This member is required.
```

```
ProductSKU *string
```

```
// License beneficiary.
```

```
Beneficiary *string
```

```
// Node ID.
```

```
NodeId *string
```

```
noSmithyDocumentSerde
```

```

}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name
    // (ARN) of the checkout license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```



```

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

```

```

// License version.
Version
*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.

```

```

NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```



```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

```

```

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack,
options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"
```



```

)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.

```

```

CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    // the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

```

```

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata

```



```

return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {

```

```

return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

```

# 1.294 rhino 1.7.14

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=====

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-----

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-----  
Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following  
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\* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- \* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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## 1.298 salvation2 3.0.1

### 1.298.1 Available under license :

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\* /opt/cola/permits/1612248587\_1680504049.6861784/0/salvation2-3-0-1-1-jar/META-INF/maven/com.shapesecurity/salvation2/pom.xml

## 1.299 client-spi 2.19.14

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# 1.314 aws-json-protocol 2.19.14

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# 1.315 sdk-core 2.19.14

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```
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```

```
package grafana
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```

"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
// Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.

```



Workspace \*types.WorkspaceDescription

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

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}

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
    if
    err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

```

runs-on: ubuntu-latest
strategy:
  matrix:
    python-version: [3.9]

steps:
  - name: Checkout target
    uses: actions/checkout@v2
    with:
      path: sdkbase
      ref: ${ github.base_ref }
  - name: Checkout this ref
    uses: actions/checkout@v2
    with:
      path: new-ref
      fetch-depth: 0
  - name: Get Diff
    run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
    ${{ github.sha }} > refDiffFiles.txt
  - name: Get Target Files
    run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
  - name: Checkout scancode
    uses: actions/checkout@v2
    with:
      repository: nexB/scancode-toolkit
      path: scancode-toolkit
      fetch-depth: 1
  - name: Set up Python ${ matrix.python-version }
    uses: actions/setup-python@v2
    with:
      python-version: ${ matrix.python-version }
  # ScanCode
  - name: Self-configure scancode
    working-directory: ./scancode-toolkit
    run: ./scancode --help
  - name: Run Scan code on target
    run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
    toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
  - name: Run Scan code on pr ref
    run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
    toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
  # compare
  - name: License test
    run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
    are the same. Success."; exit 0; fi
  // Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack,
options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}

```

```

    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
        return err
    }
    if err = addRequestIDRetrieverMiddleware(stack); err != nil {
        return err
    }
    if err = addResponseErrorMiddleware(stack); err != nil
    {
        return err
    }
    if err = addRequestResponseLogging(stack, options); err != nil {
        return err
    }
    return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {

```

```

if params == nil {
    params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type
CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.

```

```

NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {

```



```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);

```

```

err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);

```

```

err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

```

```

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// License version.
Version
*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

if
err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - Beneficiary
// - ProductSKU
// - Fingerprint
//
- Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

```



```

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

```

```

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack,
options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//

```

```

// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err

```

```

    = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Creates a license.

```

```

func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
    params = &CreateLicenseInput{}
}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.

```

```

//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```



```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return

```

```

err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
..func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {

```

```

    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
    return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}

```

```

}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}

```

## 1.317 aws-aws-sdk-go-v2-service-glue 1.43.3

### 1.317.1 Available under license :

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```
package grafana
```

```
import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .

```

```

func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase



```

    ref: ${ { github.base_ref } }
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
  uses: actions/setup-python@v2
  with:
    python-version: ${ { matrix.python-version } }
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Checks in the specified license. Check in a license when it is no longer in use.

```

func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil
{
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}
}

```

```
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type
```

```
CheckoutLicenseInput struct {
```

```
// Checkout type.
```

```
//
```

```
// This member is required.
```

```
CheckoutType types.CheckoutType
```

```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
```

```
//
```

```
// This member is required.
```

```
ClientToken *string
```

```
// License entitlements.
```

```
//
```

```
// This member is required.
```

```
Entitlements []types.EntitlementData
```

```
// Key fingerprint identifying the license.
```

```
//
```

```
// This member is required.
```

```
KeyFingerprint *string
```

```
// Product SKU.
```

```
//
```

```
// This member is required.
```

```
ProductSKU *string
```

```
// License beneficiary.
```

```
Beneficiary *string
```

```
// Node ID.
```

```
NodeId *string
```

```
noSmithyDocumentSerde
```

```
}
```

```
type CheckoutLicenseOutput struct {
```

```
// Checkout type.
```

```
CheckoutType types.CheckoutType
```

```

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
}

```

```

err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package grafana

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

```



```

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
}
}

```

```

    SigningName: "grafana",
    OperationName: "DisassociateLicense",
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

```

```

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

```

```

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"

```



```

)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack,
options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Creates a license.
```

```
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))  
(*CreateLicenseOutput, error) {  
    if params == nil {  
        params = &CreateLicenseInput{ }  
    }  
}
```



```

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

```

```

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return

```

```

err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {

```

```

return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

```

```

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//

```



```

- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

    }
    return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
}

```

## 1.318 aws-aws-sdk-go-v2 1.18.16

### 1.318.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

```

uses: actions/checkout@v2
with:
  repository: nexB/scancode-toolkit
  path: scancode-toolkit
  fetch-depth: 1
- name: Set up Python ${ matrix.python-version }
  uses: actions/setup-python@v2
  with:
    python-version: ${ matrix.python-version }
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
  if params == nil {
    params = &CheckInLicenseInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
  if err != nil {
    return nil, err
  }
}

```

```

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```



```

    return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata

```

```

{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.

```

```

//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
}

```

```

if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```



```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists the licenses for your account.

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }
}

```

```

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);

```

```

err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)

```

```

if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
}

```



```
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns  
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
    if params == nil {  
        params = &CheckoutBorrowLicenseInput{}    }  
}
```

```
    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,  
c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
    if err != nil {  
        return nil, err  
    }  
}
```

```
    out := result.(*CheckoutBorrowLicenseOutput)
```

```
    out.ResultMetadata = metadata
```

```
    return out, nil
```

```
}
```

```

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed
    []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```



```

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
}
}

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.

```

```
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata
```

```

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
    err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
    ..func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
    c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

```

```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

```



```
}
```

# 1.319 aws-aws-sdk-go-v2-internal-ini 1.3.31

## 1.319.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
```

```
    "context"
```

```
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
    "github.com/aws/smithy-go/middleware"
```

```
    smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
    if params == nil {
```

```
        params = &AssociateLicenseInput{}
```

```
    }
```

```
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
    c.addOperationAssociateLicenseMiddlewares)
```

```
    if err != nil {
```

```
        return nil, err
```

```
    }
```

```
    out
```

```
    := result.(*AssociateLicenseOutput)
```

```
    out.ResultMetadata = metadata
```

```
    return out, nil
```

```
}
```

```
type AssociateLicenseInput struct {
```

```
    // The type of license to associate with the workspace.
```

```
    //
```

```
    // This member is required.
```

```
    LicenseType types.LicenseType
```

```

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
}
}

```

```
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}
```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

# ScanCode

- name: Self-configure scancode

working-directory: ./scancode-toolkit

```

    run: ./scancode --help
- name: Run Scan code on target
    run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
    run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
    run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

```

```

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type
CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

```



```

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.

```

```

func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {

```

```

err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.

```

```

func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
    params = &GetLicenseInput{}
}
}

```

```

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);

```



```

err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //

```

```

// This member is required.
LicenseArn *string

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Creates a license.
```

```
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))  
(*CreateLicenseOutput, error) {  
    if params == nil {  
        params = &CreateLicenseInput{ }  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,  
c.addOperationCreateLicenseMiddlewares)
```

```
    if err != nil {  
        return nil, err  
    }  
  
    out := result.(*CreateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}
```

```
type CreateLicenseInput struct {  
  
    // License beneficiary.  
    //  
    // This member is required.  
    Beneficiary *string  
  
    // Unique, case-sensitive identifier that you provide to ensure  
    // the idempotency of  
    // the request.  
    //  
    // This member is required.
```

```
type CreateLicenseInput struct {
```

```
// License beneficiary.
```

```
//
```

```
// This member is required.
```

```
Beneficiary *string
```

```
// Unique, case-sensitive identifier that you provide to ensure  
the idempotency of
```

```
// the request.
```

```
//
```

```
// This member is required.
```

```
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata
```

```

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
    err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

```



```

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde  
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err  
error) {  
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    if err = addSetLoggerMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);  
    err != nil {  
        return err  
    }  
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {  
        return err  
    }  
    if err = addResolveEndpointMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {  
        return err  
    }  
    if err = addRetryMiddlewares(stack, options); err != nil {  
        return err  
    }  
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {  
        return err  
    }  
    if err = addClientUserAgent(stack); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
}
```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.

```

```

NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if
    err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}

```

## 1.320 aws-aws-sdk-go-v2-service-ssooidc

### 1.14.5

#### 1.320.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
// Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

```

```

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
}

```



```

if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

```
- name: Checkout target
  uses: actions/checkout@v2
  with:
    path: sdkbase
    ref: ${{ github.base_ref }}
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
  uses: actions/setup-python@v2
  with:
    python-version: ${{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))  
(*CheckInLicenseOutput, error) {  
    if params == nil {  
        params = &CheckInLicenseInput{ }  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,  
c.addOperationCheckInLicenseMiddlewares)
```

```
    if err != nil {  
        return nil, err  
    }  
  
    out := result.(*CheckInLicenseOutput)
```

```
    out.ResultMetadata = metadata  
    return out, nil  
}
```

```
type CheckInLicenseInput struct {
```

```
    // License consumption token.  
    //  
    // This member is required.  
    LicenseConsumptionToken *string
```

```
    // License beneficiary.  
    Beneficiary  
    *string
```

```
    noSmithyDocumentSerde  
}
```

```
type CheckInLicenseOutput struct {  
    // Metadata pertaining to the operation's result.  
    ResultMetadata middleware.Metadata
```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}

```

```

    }
    if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
        return err
    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
        return err
    }
    if err = addRequestIDRetrieverMiddleware(stack); err != nil {
        return err
    }
    if err = addResponseErrorMiddleware(stack); err != nil
    {
        return err
    }
    if err = addRequestResponseLogging(stack, options); err != nil {
        return err
    }
    return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the

```

```

// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type
CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.

```

```

Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}

```



```

}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```
out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type DisassociateLicenseInput struct {
```

```
    // The type of license to remove from the workspace.
```

```
    //
```

```
    // This
```

```
    member is required.
```

```
    LicenseType types.LicenseType
```

```
    // The ID of the workspace to remove the Grafana Enterprise license from.
```

```
    //
```

```
    // This member is required.
```

```
    WorkspaceId *string
```

```
    noSmithyDocumentSerde
```

```
}
```

```
type DisassociateLicenseOutput struct {
```

```
    // A structure containing information about the workspace.
```

```
    //
```

```
    // This member is required.
```

```
    Workspace *types.WorkspaceDescription
```

```
    // Metadata pertaining to the operation's result.
```

```
    ResultMetadata middleware.Metadata
```

```
    noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
        return err
```

```
    }
```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
}

```

```

}
if
err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{

```

```

Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.

```

```

LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```



```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

```

```

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack,
options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"
```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //

```

```

// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

```

```

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
    err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}

```



```

}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
..func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {

```

```

    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
    return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}

```

```

}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}

```

## 1.321 aws-aws-sdk-go-v2 1.13.16

### 1.321.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
```

```

func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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Copyright 2014-2015 Stripe, Inc.

name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

```

    ref: ${ { github.base_ref } }
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
  uses: actions/setup-python@v2
  with:
    python-version: ${ { matrix.python-version } }
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```



```

func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil
{
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}
}

```

```
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type
```

```
CheckoutLicenseInput struct {
```

```
// Checkout type.
```

```
//
```

```
// This member is required.
```

```
CheckoutType types.CheckoutType
```

```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
```

```
//
```

```
// This member is required.
```

```
ClientToken *string
```

```
// License entitlements.
```

```
//
```

```
// This member is required.
```

```
Entitlements []types.EntitlementData
```

```
// Key fingerprint identifying the license.
```

```
//
```

```
// This member is required.
```

```
KeyFingerprint *string
```

```
// Product SKU.
```

```
//
```

```
// This member is required.
```

```
ProductSKU *string
```

```
// License beneficiary.
```

```
Beneficiary *string
```

```
// Node ID.
```

```
NodeId *string
```

```
noSmithyDocumentSerde
```

```
}
```

```
type CheckoutLicenseOutput struct {
```

```
// Checkout type.
```

```
CheckoutType types.CheckoutType
```

```

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
}

```

```

err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package grafana

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

```

```

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```



```

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
}
}

```

```

    SigningName: "grafana",
    OperationName: "DisassociateLicense",
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

```

```

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

```

```

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```



```

}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack,
options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
    if params == nil {  
        params = &CheckoutBorrowLicenseInput{ }  
    }  
}
```

```

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

```



```

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed
    []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);

```

```

err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
    // This member is required.
    ProductName *string

    // Product SKU.
    //

```

```

// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);

```

```

err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//

```

```

- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```



```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

    }
    return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
}

```

## 1.322 aws-aws-sdk-go-v2-service-kafka 1.19.6

### 1.322.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

```

uses: actions/checkout@v2
with:
  repository: nexB/scancode-toolkit
  path: scancode-toolkit
  fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
  uses: actions/setup-python@v2
  with:
    python-version: ${ { matrix.python-version } }
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
  if params == nil {
    params = &CheckInLicenseInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
  if err != nil {
    return nil, err
  }
}

```

```

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata

```



```

{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.

```

```

//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
}

```

```

if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```



```

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}

```

```

    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists the licenses for your account.

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }
}

```

```

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);

```

```

err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)

```

```

if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (
```

```
    "context"
```

```
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
    "github.com/aws/smithy-go/middleware"
```

```
    smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
```

```
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
    if params == nil {
```

```
        params = &CheckoutBorrowLicenseInput{}
```

```
    }
```

```
    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
```

```
    c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
    if err != nil {
```

```
        return nil, err
```

```
    }
```

```
    out := result.(*CheckoutBorrowLicenseOutput)
```

```
    out.ResultMetadata = metadata
```

```
    return out, nil
```

```
}
```

```

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you
    // provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed
    []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
}
}

```



```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.

```

```
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata
```

```

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
    err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
    ..func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
    c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

```

```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

```

}

# 1.323 packaging 23.1

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## 1.324 go-hclog 1.5.0

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## 1.325 pyasn1-modules 0.3.0

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## 1.326 grep 3.6-1+deb11u1

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The

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```

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```
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```

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## 1.327 debian-archive-keyring

### 2021.1.1+deb11u1

#### 1.327.1 Available under license :

This is Debian GNU's GnuPG keyrings of archive keys.

This package was originally put together by Michael Vogt  
<mvo@debian.org>

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## 1.328 aws-aws-sdk-go-v2-internal-endpoints

### 2.4.27

#### 1.328.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))  
(*AssociateLicenseOutput, error) {
```

```
    if params == nil {  
        params = &AssociateLicenseInput{}    }
```

```
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,  
    c.addOperationAssociateLicenseMiddlewares)
```

```
    if err != nil {  
        return nil, err  
    }
```

```

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
    if
    err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt



```

- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
  uses: actions/setup-python@v2
  with:
    python-version: ${{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.

```

```

CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name

```

```

(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

```



```

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {  
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    if err = addSetLoggerMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {  
        return err  
    }  
    if err = addResolveEndpointMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {  
        return err  
    }  
    if  
    err = addRetryMiddlewares(stack, options); err != nil {  
        return err  
    }  
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {  
        return err  
    }  
    if err = addClientUserAgent(stack); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
}
```

```

if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists the licenses for your account.

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {

```

```

params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:

```

```

// - Beneficiary

```

```

// - ProductSKU

```

```

// - Fingerprint

```

```

//

```

```

- Status

```

```

Filters []types.Filter

```

```

// Amazon Resource Names (ARNs) of the licenses.

```

```

LicenseArns []string

```

```

// Maximum number of results to return in a single call.

```

```

MaxResults *int32

```

```

// Token for the next set of results.

```

```

NextToken *string

```

```

noSmithyDocumentSerde

```

```

}

```

```

type ListLicensesOutput struct {

```

```

// License details.

```

```

Licenses []types.License

```

```

// Token for the next set of results.

```

```

NextToken *string

```

```

// Metadata pertaining to the operation's result.

```

```

ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde

```

```

}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Deletes the specified license.
```

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

```

```

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,

```



```

c.addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)  
  
// Creates a license.  
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))  
(*CreateLicenseOutput, error) {  
    if params == nil {  
        params = &CreateLicenseInput{}  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,  
c.addOperationCreateLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
  
    out := result.(*CreateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}
```



```

}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
    // This member is required.
    ProductName *string

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.

```



```

MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}

```

```
}  
}
```

# 1.329 aws-aws-sdk-go-v2-internal- configsources 1.1.33

## 1.329.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (  
    "context"
```

```
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
    if params == nil {
```

```
        params = &AssociateLicenseInput{}
```

```
    }
```

```
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
    c.addOperationAssociateLicenseMiddlewares)
```

```
    if err != nil {
```

```
        return nil, err
```

```
    }
```

```
    out
```

```
    := result.(*AssociateLicenseOutput)
```

```
    out.ResultMetadata = metadata
```

```
    return out, nil
```

```
    }
```

```
type AssociateLicenseInput struct {
```

```
    // The type of license to associate with the workspace.
```

```

//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {

```

```
return &awsmiddleware.RegisterServiceMetadata{
  Region:    region,
  ServiceID: ServiceID,
  SigningName: "grafana",
  OperationName: "AssociateLicense",
}
}
```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}  
\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

```

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //

```

```

// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
}

```



```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type
CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.

```

```

//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```

```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This
    member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {  
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    if err = addSetLoggerMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);  
    err != nil {  
        return err  
    }  
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {  
        return err  
    }  
    if err = addResolveEndpointMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {  
        return err  
    }  
    if err = addRetryMiddlewares(stack, options); err != nil {  
        return err  
    }  
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {  
        return err  
    }  
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {  
        return err  
    }  
    if err = addClientUserAgent(stack); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
}
```

```

}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {

```



```

if params == nil {
    params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - Beneficiary
// - ProductSKU
// - Fingerprint
//
// - Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
}

```



```
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
    "context"
```

```
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
    "github.com/aws/smithy-go/middleware"
```

```
    smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
    if params == nil {
```

```
        params = &CheckoutBorrowLicenseInput{}
```

```
    }
```

```
    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
    if err != nil {
```

```
        return nil, err
```

```
    }
```

```
    out := result.(*CheckoutBorrowLicenseOutput)
```

```
    out.ResultMetadata = metadata
```

```
    return out, nil
```

```
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
    // Unique, case-sensitive identifier that you
```

```
    // provide to ensure the idempotency of
```

```
    // the request.
```

```
    //
```

```
    // This member is required.
```

```
    ClientToken *string
```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}

```



```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure
    the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

```

```

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.

```

Status types.LicenseStatus

// License version.

Version \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
```

```
if err != nil {
```

```
    return err
```

```
}
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
```

```
if err != nil {
```

```
    return err
```

```
}
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
    return err
```

```
}
```

```
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
    return err
```

```
}
```

```
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
```

```
err != nil {
```

```
    return err
```

```
}
```

```
if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
    return err
```

```
}
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
    return err
```

```
}
```

```
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
    return err
```

```
}
```

```
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
    return err
```

```
}
```

```
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
    return err
```

```
}
```

```
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
    return err
```

```
}
```

```

if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    // - Status
    // - Fingerprint
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

```

```

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListReceivedLicenses",
}
}
}

```

## 1.330 aws-aws-sdk-go 1.18.0

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## 1.331 chardet 5.1.0

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jar/javax/servlet/LocalStrings.properties  
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-  
jar/javax/servlet/LocalStrings_ja.properties  
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-  
jar/javax/servlet/http/LocalStrings_es.properties  
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-  
jar/javax/servlet/http/LocalStrings_ja.properties  
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-  
jar/javax/servlet/LocalStrings_fr.properties
```

\*

```
/opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-  
jar/javax/servlet/http/LocalStrings_fr.properties  
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-  
jar/javax/servlet/http/LocalStrings.properties
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Found in path(s):

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\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/Filter.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletResponse.java  
\*  
/opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/UnavailableException.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestAttributeEvent.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionBindingEvent.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletRequest.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/Servlet.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletResponse.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletInputStream.java  
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\*  
/opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/FilterChain.java  
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\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletRequestListener.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionBindingListener.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/GenericServlet.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletContextAttributeEvent.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServlet.java  
\*  
/opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletContextAttributeListener.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpServletRequestWrapper.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/http/HttpSessionActivationListener.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-jar/javax/servlet/ServletConfig.java  
\* /opt/cola/permits/1681841144\_1684505215.1311243/0/servlet-api-2-4-sources-5-

```

jar/javax/servlet/ServletException.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/http/HttpSession.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/http/HttpServletResponseWrapper.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletContext.java
*
/opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/SingleThreadModel.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletContextListener.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletRequestEvent.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/http/HttpSessionContext.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletContextEvent.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletRequestWrapper.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/http/HttpUtils.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/FilterConfig.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/http/HttpSessionListener.java
*
/opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletRequestAttributeListener.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletOutputStream.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/ServletResponseWrapper.java
* /opt/cola/permits/1681841144_1684505215.1311243/0/servlet-api-2-4-sources-5-
jar/javax/servlet/http/HttpSessionEvent.java

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## 1.336 j2objc-annotations 2.8

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Found in path(s):

\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/OnDealloc.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/LoopTranslation.java  
\*

/opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/RetainedLocalRef.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/ReflectionSupport.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/Property.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/WeakOuter.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/RetainedWith.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
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\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-

jar/com/google/j2objc/annotations/Weak.java  
\* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/AutoreleasePool.java

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- [Artur Borecki](https://github.com/pufereq)
- [Dennis Brakhane](https://github.com/brakhane)
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package grafana
```

```
import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }
}
```

```

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out
    := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
    if

```



```

err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

```

    fetch-depth: 0
  - name: Get Diff
    run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
  - name: Get Target Files
    run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
  - name: Checkout scancode
    uses: actions/checkout@v2
    with:
      repository: nexB/scancode-toolkit
      path: scancode-toolkit
      fetch-depth: 1
  - name: Set up Python ${{ matrix.python-version }}
    uses: actions/setup-python@v2
    with:
      python-version: ${{ matrix.python-version }}
# ScanCode
  - name: Self-configure scancode
    working-directory: ./scancode-toolkit
    run: ./scancode --help
  - name: Run Scan code on target
    run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
  - name: Run Scan code on pr ref
    run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
  - name: License test
    run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }
}

```

```

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary
    *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
    return err
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
}

```



```

if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
..func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

```

```

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "DisassociateLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version
    *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.

```

License \*types.License

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if
    err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    //
    // - Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.

```



NextToken \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
    err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
```

```

(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the
    license.
    //
    // This member is required.
    SourceVersion *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),

```

```

middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns  
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
    if params == nil {  
        params = &CheckoutBorrowLicenseInput{ }  
    }  
}
```

```
result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,  
c.addOperationCheckoutBorrowLicenseMiddlewares)  
if err != nil {
```

```

return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

```

```

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.

```

```
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
```

```

// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}

```



```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return
    err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// - ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary

```

```

Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
```

# 1.343 openssl 3.0.9

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.357 apscheduler 3.10.4

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
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lib/libgss/g\_init\_sec\_context.c  
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lib/libgss/g\_rel\_buffer.c  
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lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
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lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c

lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprofd\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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not  
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```
<PageHeader as |p|>
```

```
<p.levelLeft>
```

```
<h1 class="title is-3">License</h1>
```

```
</p.levelLeft>
```

```
</PageHeader>
```

```
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
```

```
<span class="title is-5">Details</span>
```

```
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
```

```
<InfoTableRow @label="License ID" @value={{ @licenseId }} data-test-detail-row />
```

```
<InfoTableRow @label="Valid from" @value={{ @startTime }} data-test-detail-row>
```

```
  {{ date-format @startTime "MMM dd, yyyy hh:mm:ss a" }}
```

```
  to
```

```
  {{ date-format @expirationTime "MMM dd, yyyy hh:mm:ss a" }}
```

```
</InfoTableRow>
```

```
<InfoTableRow @label="License state" @value={{ if @autoloaded "Autoloaded" "Stored" }} data-test-detail-
```

```
row>
```

```
  {{#if @autoloaded}}
```

```
    Autoloaded
```

```
  {{else}}
```

```
    Stored
```

```

<Icon @name="alert-triangle-fill" class="has-text-highlight" />
<span class="is-size-8">
  Stored licenses will be deprecated in a future version of Vault. We recommend
autoloading your license. Read more
  <a href="https://www.vaultproject.io/docs/enterprise/license" rel="noreferrer noopener"
target="_blank">here</a>.
</span>
{{/if}}
</InfoTableRow>
</div>
</section>

```

```

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
<span class="title is-5">Features</span>
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{#each this.featuresInfo as |info|}}
  <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} data-test-feature-row>
  {{#if info.active}}
  <Icon @name="check-circle" class="icon-true" />
  <span data-test-feature-status>
    Active
    {{#if info.count}}&mdash; {{info.count}} standby nodes allotted{{/if}}
  </span>
  {{else}}
  <Icon @name="x-circle" class="icon-false" />
  <span data-test-feature-status>Not Active</span>
  {{/if}}
  </InfoTableRow>
  {{/each}}
</div>
</section>

```

```

---
layout: docs
page_title: license - Command
description: |-
  The "license" command groups subcommands for interacting with Vault licenses.
---

```

```
# license
```

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/docs/enterprise/license)

```
## Examples
```

Query current license in use by a node:

```
```shell-session
$ vault license get
Key          Value
---          -
expiration_time 2022-05-17T23:59:59.999Z
features      [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id     060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count 9999
start_time    2021-05-17T00:00:00Z
```
```

Query signed license string (only when using a deprecated stored license)

```
```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```
```

Inspect a signed a license string:

```
```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
```
```

License is valid

```
```
```

```
## Usage
```



```
```text
Usage: vault license <subcommand> [options] [args]
```

```
# ...
```

#### Subcommands:

```
  get    Query Vault's license
  inspect View the contents of a license string
```
```

For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

```
<LicenseInfo
  @startTime={{ this.model.startTime }}
  @expirationTime={{ this.model.expirationTime }}
  @licenseId={{ this.model.licenseId }}
  @features={{ this.model.features }}
  @autoloading={{ this.model.autoloading }}
  @performanceStandbyCount={{ this.model.performanceStandbyCount }}
/>
---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.
---
```

#### # License Autoloading

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [POST sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order of priority (i.e. `VAULT\_LICENSE` takes precedence over `VAULT\_LICENSE\_PATH`, which takes precedence over `license\_path` in config.)

- [VAULT\_LICENSE environment variable](/docs/commands#vault\_license)
- [VAULT\_LICENSE\_PATH environment variable](/docs/commands#vault\_license\_path)
- [license\_path in config](/docs/configuration#license\_path)

#### Nodes within a cluster

should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there

are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings. Once a migration to autoloading is completed, it is recommended to use the [DELETE API](/api/system/license#delete-license) to remove the stored license.

---

layout: docs

page\_title: Vault Enterprise License

description: An overview of license.

---

# Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.

---

layout: docs

page\_title: license inspect - Command

description: |-

The "license inspect" command describes the contents of a signed license string.

---

# license inspect

The `license inspect` command describes the contents of a signed license string.

## Examples

Describe license in the environment (either `VAULT\_LICENSE` for a raw value or `VAULT\_LICENSE\_PATH` for the path to a file containing the value):

```
```shell-session
```

```
$ vault license inspect
```

```
Source: /Users/ncc/vaults/license
```

```
Product: vault
```

```
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
```

```
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
```

```
Installation ID: *
```

```
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
```

```
Start Time: 2021-05-17 00:00:00 +0000 UTC
```

```
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
```

```
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-
```

```
432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-
```

```
17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-
```

```
policy","advanced-data-protection"]},"features":["HSM","Performance
Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
```

License is valid

---

Describe license at given path:

```
```shell-session
```

```
$ vault license inspect ~/vaults/license
```

```
Source: /Users/ncc/vaults/license
```

```
Product: vault
```

```
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
```

```
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
```

```
Installation ID: *
```

```
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
```

```
Start Time: 2021-05-17 00:00:00 +0000 UTC
```

```
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
```

```
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance
Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance
Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key
Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
```

License is valid

---

## ## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### ### Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against`

---

layout: docs

page\_title: Frequently Asked Questions (FAQ)

description: An overview of license.

---

## # Frequently Asked Questions (FAQ)

This FAQ section is for the license changes introduced in Vault Enterprise 1.8.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- 
- [Q: Are there any changes to existing methods for manual license loading ( API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- 
- [Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
- [Q: What are the steps to upgrade from one autoloading license to another autoloading license?](#q-what-are-the-steps-to-upgrade-from-one-autoloading-license-to-another-autoloading-license)
- [Q: What are the Vault ADP module licensing changes introduced in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)
- [Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)
- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-customers-based-on-these-adp-module-licensing-changes)

### Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

### Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

### Q: Do these license changes impact all Vault customers/licenses?

| Customer/licenses                                                                                                           | Impacted? |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|
| ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/)) | Yes       |
| Open-Source (OSS)                                                                                                           | No        |
| Baked-in license binaries (pro/premium)                                                                                     | No        |

### Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

### Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloading or loaded into storage using existing methods (`^/sys/license``) depending on the applicable scenarios as described above.

When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT binaries must have a valid license, and the license must be on the disk (auto-loading).

### Q: Are there any changes to existing methods for manual license loading ( API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8. However, the `/sys/license` endpoint is slated for deprecation in a future release. Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

### Q: Does this affect clients?

No, there is no impact to the Vault Agent.

### Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) . Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

### Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.

1. Use the new command ``vault license get -signed`` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure auto-loading (new ``license_path`` config option, OR new environment variable ``VAULT_LICENSE_PATH`` OR new environment variable ``VAULT_LICENSE`` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command ``vault delete /sys/license`` to fully transition to auto-loading.

### Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

### Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (``/sys/license``). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

### Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre- Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With

this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11,

licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.

### Q: What are the steps to upgrade from one autoloading license to another autoloading license?

Follow these steps to migrate from one autoloading license to another autoloading license.

1. Use the [vault license inspect](/docs/commands/license/inspect) command to compare the new license against the output of the [vault license get](/docs/commands/license/get) command. This is to ensure that you have the correct license.

1. Backup the old license file in a safe location.

1. Replace the old license file on each Vault server with the new one.

1. Invoke the [reload command](/api-docs/system/config-reload#reload-license-file) on each individual Vault server, starting with the standbys and doing the leader last. Invoking in this manner reduces possible disruptions if something was performed incorrectly with the above steps. You can either use the [reload command](/api-docs/system/config-reload#reload-license-file) or send a SIGHUP.

1. On each node, ensure that the new license is in use by using the [vault license get](/docs/commands/license/get) command and/or checking the logs.

## # ADP Licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

### Q: What are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

**\*\*ADP-KM\*\*** includes:

- [Key Management Secrets Engine (KMSE)](/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/docs/secrets/kmip)
- [MSSQL Transparent Data Encryption (TDE)](<https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault>)

**\*\*ADP-Transform\*\*** includes:

- [Transform Secrets Engine (TSE)](/docs/secrets/transform)

### Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

**\*\*ADP-KM includes\*\***:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without



the purchase of a Vault Enterprise Standard license.

- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in Vault OSS and ADP-KM (KMSE and KMIP).

**\*\*ADP-Transform includes\*\*:**

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.
- The ADP-Transform SKU can be applied as an add-on. This workflow is similar to the consolidated ADP SKU.

### Q: What is the impact to customers based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **\*\*New customers\*\*** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.
- **\*\*Existing customers\*\*** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).

```
.license-banner-wrapper {  
  width: 100%;  
  max-width: 1344px;  
  margin: $spacing-1 auto 0;  
  padding: 0 1.5rem;  
}
```

---

layout: docs

page\_title: license get - Command

description: |-

The "license get" command reports on the license in use.

---

# license get

The `license get` command reports on the license in use. With the `signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloading](/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```
```shell-session
```

```
$ vault license get
```

```
Key          Value
```

```
---
```

```
-----
```

```
expiration_time      2022-05-17T23:59:59.999Z
features             [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id           060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count 9999
start_time           2021-05-17T00:00:00Z
^^^
```

Get stored

license string:

```
^^^shell-session
$ vault license get -signed
02MV4UU43BK5H...
^^^
```

Try to get stored license string when using autoloading:

```
^^^shell-session
$ vault license get -signed
License not found or using a temporary license.
^^^
```

## ## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### ### Command Options

- `-signed` `(bool: false)`` - Return the signed license string when using a stored license.

---

layout: api

page\_title: /sys/license - HTTP API

description: |-

The `/sys/license`` endpoint is used to view and update the license used in Vault.

---

# `/sys/license``

~> **\*\*Enterprise Only\*\*** These endpoints require Vault Enterprise.

The `/sys/license`` endpoint is used to view and update the license used in Vault.

## ## Read License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [\[license autoloading\]\(/docs/enterprise/license/autoloading\)](/docs/enterprise/license/autoloading) instead, and see [\[License Status\]\(#license-status\)](#) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

```
| Method | Path      |
|:-----|:-----|
| `GET`  | `/sys/license` |
```

### ### Sample Request

```
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```
```

### ### Sample Response

```
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features":
    ["UI", "HSM", "Performance Replication", "DR Replication"],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": ["time left on license is 29m33s"]
}
```
```

## ## Read Signed License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [\[license autoloading\]\(/docs/enterprise/license/autoloading\)](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

```
| Method | Path      |
|:-----|:-----|
| `GET`  | `/sys/license/signed` |
```

### ### Sample Request

```
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/signed
```
```

### ### Sample Response

```
```json
{
  "data": {
    "signed": "01ABCDEFGF..."
  }
}
```
```

### ## Install License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [\[license autoloading\]](/docs/enterprise/license/autoloading) instead.

This endpoint is used to install a license into Vault. The license will be replicated to the Vault instances within the targeted cluster, but will not replicate the license to a [\[performance replication\]](/docs/enterprise/replication) cluster. To license a performance replication cluster, this must be run against a Vault instance within that cluster.

| Method | Path         |
|--------|--------------|
| POST   | /sys/license |

### ### Parameters

- `text` (string: <required>) The text of the license.

#### \_DR Secondary Specific Parameters\_

- `dr\_operation\_token` (string: <required>) - DR operation token used to authorize this request. Note that this is the legacy mechanism for providing a DR operation token. It is equally valid to provide the DR operation token in the `X-Vault-Token` header, as with a regular vault token.

If you are using a batch `dr\_operation\_token`, note you will need to add the following to the token's policy

```
```# Manage license for DR Secondary
path "sys/replication/dr/secondary/license"
{
  capabilities = ["update"]
}
```

```
}``
```

### ### Sample Payload

```
``json  
{  
  "text": "01ABCDEFGF..."  
}  
``
```

### ### Sample Request

```
``shell-session  
$ curl \  
  --header "X-Vault-Token: ..." \  
  --request POST \  
  --data @payload.json \  
  http://127.0.0.1:8200/v1/sys/license  
``
```

### ## Delete License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault. Please use [\[license autoloading\]\(/docs/enterprise/license/autoloading\)](#) instead.

This endpoint is used to delete a stored license in Vault. This will return an error unless license autoloading is in use.

```
| Method | Path          |  
|:-----|:-----|  
| `DELETE` | `/sys/license` |
```

### ### Sample Request

```
``shell-session  
$ curl \  
  --header "X-Vault-Token: ..." \  
  --request DELETE \  
  http://127.0.0.1:8200/v1/sys/license  
``
```

### ## License Status

This endpoint returns information about licensing. It returns similar information to a GET of `/sys/license``, but whereas that endpoint reports solely on the license Vault is currently using, this one reports on all licensing

information the Vault cluster has. See [\[license autoloading\]\(/docs/enterprise/license/autoloading\)](#) for background.

In the response:

- \* ``autoloading_used`` will be true if an autoloaded license was provided to the node, false otherwise.
- \* ``autoloaded`` is the autoloaded license if `autoloading_used` is true.
- \* ``persisted_autoload`` is the autoloaded license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.
- \* ``stored`` is the stored license if any, i.e. one written using ``POST sys/license``.

``autoloaded``, ``persisted_autoload``, and ``stored`` all have the same structure, which is also the same structure as the top-level ``data`` returned by ``GET sys/license``.

```
| Method | Path          |
|:-----|:-----|
| `GET`  | `/sys/license/status` |
```

### ### Sample Request

```
```shell-session
$ curl
\
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/status
```
```

### ### Sample Response

```
```json
{
  "data": {
    "autoloading_used": true,
    "autoloaded": {
      "expiration_time": "2022-05-17T23:59:59.999Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
      ]
    }
  }
}
```

```

    "Transform Secrets Engine",
    "Lease Count Quotas",
    "Key Management Secrets Engine",
    "Automated Snapshots"
  ],
  "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
  "performance_standby_count": 9999,
  "start_time": "2021-05-17T00:00:00Z"
},
"persisted_autoload": {
  "expiration_time": "2022-05-17T23:59:59.999Z",
  "features": [
    "HSM",
    "Performance Replication",
    "DR Replication",

    "MFA",
    "Sentinel",
    "Seal Wrapping",
    "Control Groups",
    "Performance Standby",
    "Namespaces",
    "KMIP",
    "Entropy Augmentation",
    "Transform Secrets Engine",
    "Lease Count Quotas",
    "Key Management Secrets Engine",
    "Automated Snapshots"
  ],
  "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
  "performance_standby_count": 9999,
  "start_time": "2021-05-17T00:00:00Z"
}
}
}
...
{{#if this.licenseExpired}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
<AlertBanner
  @type="danger"
  @title="License expired"
  @message="Your Vault license expired on {{ date-format
    @expiry
    "MMM d, yyyy"
  }}. Add a new license to your configuration and restart Vault."
  @marginless={{ true }}
>
<a

```

```

    href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
    target="_blank"
    rel="noreferrer noopener"
  >
    Read documentation
  </a>
</AlertBanner>
</div>
{{else if (lte this.licenseExpiringInDays 30)}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
  <AlertBanner
    @type="warning"
    @title="Vault license expiring"
    @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format
      @expiry
      "hh:mm:ss a"
    }} on {{date-format
@expiry "MMM d, yyyy"}}. {{if
      @autoloaded
      "Add a new license to your configuration."
      "Keep in mind that your next license will need to be autoloaded"
    }}"
    @marginless={{true}}
  >
  <a
    href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
    target="_blank"
    rel="noreferrer noopener"
  >
    Read documentation
  </a>
</AlertBanner>
</div>
{{/if}}
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
  return false
}

```



# 1.363 openssl 1.1.1w

## 1.363.1 Available under license :

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=====

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c'  
for details.
```

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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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The End

# 1.364 libsanitizer 13.2.0

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| -----         | -----                          |
| mach_override | lib/interception/mach_override |

## 1.365 vault-api-auth-kubernetes 0.5.0

### 1.365.1 Available under license :

---

layout: docs

page\_title: Vault Enterprise License

description: An overview of license.

---

# Vault license

@include 'alerts/enterprise-and-hcp-plus.mdx'

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [\[FAQ\]\(/vault/docs/enterprise/license/faq\)](#) for common questions concerning these changes.

The [\[Install a HashiCorp Enterprise License\]\(/vault/tutorials/enterprise/hashicorp-enterprise-license\)](#) tutorial provides the instruction to load your Vault license.

{{!

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~}}

<LicenseInfo

@startTime={{ this.model.startTime }}

@expirationTime={{ this.model.expirationTime }}

@licenseId={{ this.model.licenseId }}

@features={{ this.model.features }}

@autoloaded={{ this.model.autoloaded }}

@performanceStandbyCount={{ this.model.performanceStandbyCount }}

/>

---

layout: docs

page\_title: license get - Command



description: |-

The "license get" command reports on the license in use.

---

# license get

The `license get` command reports on the license in use. With the `-signed` flag, it will return the actual license string, but only if the license is stored, as opposed to [autoloading](/vault/docs/enterprise/license/autoloading).

## Examples

Describe current license:

```
```shell-session
```

```
$ vault license get
```

```
Key                Value
```

```
---
```

```
expiration_time    2022-05-17T23:59:59Z
```

```
features           [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups  
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas  
Key Management Secrets Engine Automated Snapshots]
```

```
license_id         060d7820-fa59-f95c-832b-395db0aeb9ba
```

```
performance_standby_count 9999
```

```
start_time         2021-05-17T00:00:00Z
```

```
termination_time
```

```
    2031-05-17T23:59:59Z
```

```
```
```

Get stored license string:

```
```shell-session
```

```
$ vault license get -signed
```

```
02MV4UU43BK5H...
```

```
```
```

Try to get stored license string when using autoloading:

```
```shell-session
```

```
$ vault license get -signed
```

```
License not found or using a temporary license.
```

```
```
```

## Usage

The following flags are available in addition to the [standard set of flags](/vault/docs/commands) included on all commands.

### ### Command options

- `signed` (bool: false) - Return the signed license string when using a stored license.

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~}}

<PageHeader as |p|>

<p.levelLeft>

<h1 class="title is-3">License</h1>

</p.levelLeft>

</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">

<span class="title is-5">Details</span>

<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">

<InfoTableRow @label="License ID" @value={{ @licenseId }} data-test-detail-row />

<InfoTableRow @label="Valid from" @value={{ @startTime }} data-test-detail-row>

{{ date-format @startTime "MMM dd, yyyy hh:mm:ss a" }}

to

{{ date-format @expirationTime "MMM dd, yyyy hh:mm:ss a" }}

</InfoTableRow>

<InfoTableRow @label="License state" @value={{ "Autoloaded" }} data-test-detail-row />

</div>

</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">

<span class="title is-5">Features</span>

<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">

{{#each this.featuresInfo as |info|}}

<InfoTableRow @label={{ info.name }} @value={{ if info.active "Active" "Not Active" }} data-test-feature-row>

{{#if info.active}}

<Icon @name="check-circle" class="icon-true" />

<span data-test-feature-status>

Active

{{#if info.count}}&mdash; {{ info.count }} standby nodes allotted{{/if}}

</span>

{{else}}

<Icon @name="x-circle" class="icon-false" />

<span data-test-feature-status>Not Active</span>

{{/if}}

</InfoTableRow>

{{/each}}

</div>

</section>

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---

layout: api

page\_title: /sys/license/status - HTTP API

description: |-

The `/sys/license/status` endpoint is used to view the license used in Vault.`

---

# `/sys/license/status``

@include 'alerts/enterprise-and-hcp-plus.mdx'

The `/sys/license/status` endpoint is used to view update the license used in Vault.`

## License status

@include 'alerts/restricted-admin.mdx'

This endpoint returns information about licensing. See [license autoloading](/vault/docs/enterprise/license/autoloading) for additional background.

In the response:

- `autoloading_used` will be true if an autoloaded license was provided to the node, false otherwise. This should always be true from Vault 1.11.0 onward.`
- `autoloaded` is the autoloaded license if autoloading_used` is true.`
- `persisted_autoload` is the autoloaded license the active node last wrote to storage; this is only used to detect inconsistently licensed nodes in the cluster. It cannot be used as a license itself.`
- `stored` was used for the stored license prior to Vault 1.11.0. Stored licenses are no longer supported.`

`autoloading`, and `persisted\_autoload` will both have the same structure.

```
| Method | Path |
|:-----|:-----|
| `GET` | `/sys/license/status` |
```

### Sample request

```
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/status
```
```

### Sample response

```
```json
{
  "data": {
    "autoloading_used": true,
    "autoloading": {
      "expiration_time": "2022-05-17T23:59:59Z",
      "features": [
        "HSM",
        "Performance Replication",
        "DR Replication",
        "MFA",
        "Sentinel",
        "Seal Wrapping",
        "Control Groups",
        "Performance Standby",
        "Namespaces",
        "KMIP",
        "Entropy Augmentation",
        "Transform Secrets Engine",
        "Lease Count Quotas",
        "Key Management Secrets Engine",
        "Automated Snapshots"
      ],
      "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
      "performance_standby_count": 9999,
      "start_time": "2021-05-17T00:00:00Z",
      "termination_time": "2031-05-17T23:59:59Z"
    },
    "persisted_autoload": {
      "expiration_time": "2022-05-17T23:59:59Z",
      "features": [
        "HSM",
```

```

    "Performance Replication",
    "DR Replication",
    "MFA",
    "Sentinel",
    "Seal Wrapping",
    "Control Groups",
    "Performance Standby",
    "Namespaces",
    "KMIP",
    "Entropy Augmentation",
    "Transform Secrets Engine",
    "Lease Count Quotas",
    "Key Management Secrets Engine",
    "Automated Snapshots"
  ],
  "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
  "performance_standby_count": 9999,
  "start_time": "2021-05-17T00:00:00Z",
  "termination_time": "2031-05-17T23:59:59Z"
}
}
}
...
{{!
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~}}

```

```

{{#if (and this.licenseExpired (not this.expiredDismissed))}}
<div class="license-banner-wrapper">
  <Hds::Alert
    @type="inline"
    @color="critical"
    @onDismiss={{ fn this.dismissBanner "expired" }}
    data-test-license-banner-expired
    as |A|
  >
    <A.Title>License expired</A.Title>
    <A.Description>
      Your Vault license expired on
      {{ date-format @expiry "MMM d, yyyy" }}. Add a new license to your configuration and restart Vault.
    </A.Description>
    <A.Description class="has-top-margin-xs">
      <DocLink @path="/vault/tutorials/enterprise/hashicorp-enterprise-license">
        Read documentation
        <Icon @name="learn-link" />
      </DocLink>
    </A.Description>
  </div>
{{/if}}

```

```

</Hds::Alert>
</div>
{{else if (and (lte this.licenseExpiringInDays 30) (not this.warningDismissed))}}
<div class="license-banner-wrapper">
  <Hds::Alert
    @type="inline"
    @color="warning"
    @onDismiss={{ fn this.dismissBanner "warning" }}
    data-test-license-banner-warning
    as |A|
  >
    <A.Title>Vault license expiring</A.Title>
    <A.Description>
      Your Vault license will expire in
      {{this.licenseExpiringInDays}}
      days at
      {{date-format @expiry "hh:mm:ss a"}}
      on
      {{date-format @expiry "MMM d, yyyy"}}.
      {{if
        @autoloaded
        "Add a new license to your configuration."
        "Keep in mind that your next license will need to be autoloaded."
      }}
    </A.Description>
    <A.Description class="has-top-margin-xs">
      <DocLink @path="/vault/tutorials/enterprise/hashicorp-enterprise-license">
        Read documentation
      <Icon @name="learn-link" />
    </DocLink>
    </A.Description>
  </Hds::Alert>
</div>
{{/if}}

```

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---

layout: docs

page\_title: Automated license utilization reporting

description: >-

Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

---

# Automated license utilization reporting

@include 'alerts/enterprise-and-hcp-plus.mdx'

Automated license utilization reporting sends license utilization data to HashiCorp without requiring you to manually collect and report them. It also lets you review your license usage with the monitoring solution you already use (for example Splunk, Datadog, or others) so you can optimize and manage your deployments. Use these reports to understand how much more you can deploy under your current contract, protect against overutilization, and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. They consist of mostly computed metrics and will never contain Personal Identifiable

Information (PII) or other

sensitive information. Automated reporting shares the data with HashiCorp using



a secure, unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

## ## Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

### ### 1. allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 to <https://reporting.hashicorp.services> by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

### ### 2. upgrade

Upgrade to a release that supports license utilization reporting. These releases include:

- [Vault Enterprise 1.14.0](<https://releases.hashicorp.com/vault/>) and later
- [Vault Enterprise 1.13.4](<https://releases.hashicorp.com/vault/>) and later 1.13.x versions
- [Vault Enterprise 1.12.8](<https://releases.hashicorp.com/vault/>) and later 1.12.x versions
- [Vault Enterprise 1.11.12](<https://releases.hashicorp.com/vault/>)

### ### 3. check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the server logs for records that the data sent successfully.

You will find log entries similar to the following:

<CodeBlockConfig hideClipboard>

...

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
```

```
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording
audit record
[INFO] core.reporting: Report sent:
auditRecord="{\"payload\":{\"payload_version\":1,\"license_id\":\"97afe7b4-b9c8-bf19-bf35-
b89b5cc0efea\",\"product\":\"vault\",\"product_version\":\"1.14.0-rc1+ent\",\"export_timestamp\":\"2023-06-
01T09:34:44.215133-
04:00\",\"snapshots\":{\"snapshot_version\":1,\"snapshot_id\":\"0001J7H7KMEDRXKM5C1QJGBXV3\",\"proces
s_id\":\"01H1T45CZK2GN9WR22863W2K32\",\"timestamp\":\"2023-06-01T09:34:44.215001-
04:00\",\"schema_version\":\"1.0.0\",\"service\":\"vault\",\"metrics\":{\"clientcount.current_month_estimate\":{\"key
\":\"clientcount.current_month_estimate\",\"kind\":\"sum\",\"mode\":\"write\",\"labels\":{\"type\":{\"entity\":20,\"no
nentity\":11}}},\"clientcount.previous_month_complete\":{\"key\":\"clientcount.previous_month_complete\",\"kind
\":\"sum\",\"mode\":\"write\",\"labels\":{\"type\":{\"entity\":10,\"nonentity\":11}}}},\"metadata\":{\"vault\":{\"billi
ng_start\":\"2023-03-01T00:00:00Z\",\"cluster_id\":\"a8d95acc-ec0a-6087-d7f6-4f054ab2e7fd\"}}}"
[DEBUG]
core.reporting: completed recording audit record
[DEBUG] core.reporting: export finished successfully
...
```

</CodeBlockConfig>

If your installation is air-gapped or your network doesn't allow the correct egress, logs will show an error.

<CodeBlockConfig hideClipboard>

```
...
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: error status code received: statusCode=403
...
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check back in 24 hours.

## Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can

opt-out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you're worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

#### HCL configuration

Opting out in your products configuration file doesn't require a system restart, and is the method we recommend. Add the following block to your server configuration file (e.g. `vault-config.hcl`).

```
```hcl
reporting
{
  license {
    enabled = false
  }
}
```
```

<Warning>

When you have a cluster, each node must have the reporting stanza in its configuration to be consistent. In the event of leadership change, nodes will use its server configuration to determine whether or not to opt-out the automated reporting. Inconsistent configuration between nodes will change the reporting status upon active unseal.

</Warning>

You will find the following entries in the server log.

<CodeBlockConfig hideClipboard>

...

```
[DEBUG] core: reloading automated reporting
[INFO] core: opting out of automated reporting
[DEBUG] activity: there is no reporting agent configured, skipping counts reporting
...
```

</CodeBlockConfig>

#### #### Environment variable

If you need to, you can also opt out using an environment variable, which will provide a startup message confirming that you have disabled automated reporting. This option requires a system restart.

<Note>

If the reporting stanza exists in the configuration file, the `OPTOUT_LICENSE_REPORTING` value overrides the configuration.`

</Note>

Set the following environment variable.

```
```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```
```

Now, restart your [Vault servers](/vault/docs/commands/server) from the shell where you set the environment variable.

You will find the following entries in the server log.

<CodeBlockConfig hideClipboard>

...

```
[INFO] core: automated reporting disabled via environment variable: env=OPTOUT_LICENSE_REPORTING
[INFO] core: opting out of automated reporting
[DEBUG] activity: there is no reporting agent configured, skipping counts reporting
...
```

</CodeBlockConfig>

Check your product logs roughly 24 hours after opting out to make sure that the system isnt trying to send reports.

If your configuration file and environment variable differ, the environment

variable setting will take precedence.

## ## Example payloads

HashiCorp collects the following utilization data as JSON payloads:

- `payload\_version` - The version of this payload schema
- `license\_id` - The license ID for this product
- `product` - The product that this contribution is for
- `product\_version` - The product version this contribution is for
- `export\_timestamp` - The date and time for this contribution
- `snapshots` - An array of snapshot details. A snapshot is a structure that represents a single data collection
  - `snapshot\_version` - The version of the snapshot package that produced this snapshot
  - `snapshot\_id` - A unique identifier for this particular snapshot
  - `process\_id` - An identifier for the system that produced this snapshot
  - `timestamp` - The date and time for this snapshot
  - `schema\_version` - The version of the schema associated with this snapshot
  - `service` - The service that produced this snapshot (likely to be product name)
  - `metrics` - A map of representations of snapshot metrics contained within this snapshot
    - `key` - The key name associated with this metric
    - - `kind` - The kind of metric (feature, counter, sum, or mean)
      - `mode` - The mode of operation associated with this metric (write or collect)
      - `labels` - The labels associated with each collected metric
        - `entity` - The sum of tokens generated for a unique client identifier
        - `nonentity` - The sum of tokens without an entity attached
- `metadata` - Optional product-specific metadata
  - `billing\_start` - The billing start date associated with the reporting cluster (license start date if not configured)
  - `cluster\_id` - The cluster UUID as shown by `vault status` on the reporting cluster

<CodeBlockConfig hideClipboard>

```
```json
{
  "payload_version": "1",
  "license_id": "97afe7b4-b9c8-bf19-bf35-b89b5cc0efea",
  "product": "vault",
  "product_version": "1.14.0-rc1+ent",
  "export_timestamp": "2023-06-01T11:39:00.76643-04:00",
  "snapshots": [
    {
```

```

"snapshot_version": 1,
"snapshot_id": "0001J7HEWM1PEHPMF5YZT8EV65",
"process_id":
"01H1VSQMNYAP77R566F1Y03GE6",
"timestamp": "2023-06-01T11:39:00.766099-04:00",
"schema_version": "1.0.0",
"service": "vault",
"metrics": {
  "clientcount.current_month_estimate": {
    "key": "clientcount.current_month_estimate",
    "kind": "sum",
    "mode": "write",
    "labels": {
      "type": {
        "entity": 20,
        "nonentity": 11
      }
    }
  },
  "clientcount.previous_month_complete": {
    "key": "clientcount.previous_month_complete",
    "kind": "sum",
    "mode": "write",
    "labels": {
      "type": {
        "entity": 10,
        "nonentity": 11
      }
    }
  }
}
],
"metadata": {
  "vault": {
    "billing_start": "2023-03-01T00:00:00Z",
    "cluster_id": "a8d95acc-ec0a-6087-d7f6-4f054ab2e7fd"
  }
}
}
}

```

</CodeBlockConfig>

## Pre-1.9 counts

When upgrading Vault from

1.8 (or earlier) to 1.9 (or later), utilization reporting will only include the [non-entity tokens](/vault/docs/concepts/client-count#non-entity-tokens) that are used after the upgrade.

Starting in Vault 1.9, the activity log records and de-duplicates non-entity tokens by using the namespace and token's policies to generate a unique identifier. Because Vault did not create identifiers for these tokens before 1.9, the activity log cannot know whether this token has been seen pre-1.9. To prevent inaccurate and inflated counts, the activity log will ignore any counts of non-entity tokens that were created before the upgrade and only the non-entity tokens from versions 1.9 and later will be counted.

See the client count [overview](/vault/docs/concepts/client-count) and [FAQ](/vault/docs/concepts/client-count/faq) for more information.

---

layout: docs

page\_title: Frequently Asked Questions (FAQ)

description: An overview of license.

---

## # License FAQ

This FAQ section is for license changes and updates introduced for Vault Enterprise.

- [Q: How do the license termination changes affect upgrades?](#q-how-do-the-license-termination-changes-affect-upgrades)
- [Q: What impact on upgrades do the license termination behavior changes pose?](#q-what-impact-on-upgrades-do-the-license-termination-behavior-changes-pose)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- 
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
-

[Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-11-or-later-auto-loaded-license-mandatory-to-a-pre-vault-1-11-auto-loading-not-mandatory-stored-license-supported)

- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- [Q: What are the steps to upgrade from one autoloading license to another autoloading license?](#q-what-are-the-steps-to-upgrade-from-one-autoloading-license-to-another-autoloading-license)

- [Q: What are the Vault ADP module licensing changes introduced in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)

-

[Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)

- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-customers-based-on-these-adp-module-licensing-changes)

### Q: what is the product behavior change introduced by the licensing changes?

Per the [feature deprecation plans](/vault/docs/deprecation), Vault will no longer support licenses in storage. An [auto-loaded license](/vault/docs/enterprise/license/autoloading) must be used instead. If you are using stored licenses, you must migrate to auto-loaded licenses prior to upgrading to Vault 1.11

Vault 1.12 will also introduce different termination behavior for evaluation licenses versus non-evaluation licenses. An evaluation license will include a 30-day trial period after which a running Vault server will terminate. Vault servers using a non-evaluation license will not terminate.

### Q: how do the license termination changes affect upgrades?

Vault 1.12 will introduce changes to the license termination behavior. Upgrades when using expired licenses will now be limited.

Vault will not startup if the build date of the binary is `_after_` the expiration date of a license. License expiration date and binary build date compatibility can be verified using the [Check for Autoloading License](/vault/docs/commands/operator/diagnose#check-for-autoloading-license) check performed by the ``vault operator diagnose`` command.

The build date of a binary can also be found using the [vault version](/vault/docs/commands/version#version) command.

A user can expect the following to occur based on the following scenarios:

**\*\*Evaluation or non-evaluation license is valid:\*\***

Vault will start normally

**\*\*Evaluation or non-evaluation license is expired, binary build date `_before_` license expiry date:\*\***

Vault will start normally

**\*\*Evaluation or non-evaluation license is expired, binary build date `_after_` license expiry date:\*\***

Vault will not start



**\*\*Evaluation license is terminated:\*\***

Vault will not start independent of the binary's build date

**\*\*Non-evaluation license is terminated, binary build date `_before_` license expiry date:\*\***

Vault will start normally

**\*\*Non-evaluation license is terminated, binary build date `_after_` license expiry date:\*\***

Vault will not start

The Vault support team can issue you a temporary evaluation license to allow for security upgrades if your license has expired.

**### Q: will these license changes impact HCP Vault?**

No, these changes will not impact HCP Vault.

**### Q: do these license changes impact all Vault customers/licenses?**

| Customer/licenses                                                                                                                 | Impacted? |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------|
| -----                                                                                                                             | -----     |
| ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))   Yes |           |
| Business-Source (BSL)                                                                                                             | No        |

**### Q: what is the product behavior change introduced by the licensing changes?**

With Vault 1.11, the use of an [auto-loaded license](/vault/docs/enterprise/license/autoloading) is required for Vault to start successfully.

**### Q: how will Vault behave at startup when a license expires or terminates?**

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.11. The grace period, defined as the time between license expiration and license termination, is one day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses.

Customers must provide a

valid license before the grace period expires. This license is required to be [auto-loaded](/vault/docs/enterprise/license/autoloading). When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to provide one, and this license will need to be auto-loaded.

Vault 1.12 changes the license expiration and termination behavior. Evaluation licenses include a 30-day trial period after which a running Vault server will terminate. Non-evaluation licenses, however, will no longer terminate. When a non-evaluation license expires, Vault will continue to function but upgrades will be limited. The build date of the upgrade binary must be before the expiration date of the license.

Vault will not start when attempting to use an expired license and binary with a build date `_after_` the license expiration date. Attempting to [reload](/vault/api-docs/system/config-reload#reload-license-file)

an expired license will result in an error if the build date of the running Vault server is `_after_` the license expiration date.

License expiration date and binary build date compatibility can be verified using the `[Check for Autoloaded License](/vault/docs/commands/operator/diagnose#check-for-autoloaded-license)` check performed by the ``vault operator diagnose`` command. The build date of a binary can also be found using the `[vault version](/vault/docs/commands/version#version)` command.

### Q: what is the impact on evaluation licenses due to this change?

As of Vault 1.8, any Vault cluster deployed must have a valid `[auto-loaded](/vault/docs/enterprise/license/autoloading)` license.

Vault 1.12 introduces `[expiration and termination behavior changes](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)` for non-evaluation licenses. Evaluation licenses will continue to have a 1-day grace period upon license expiry after which they will terminate. Vault will seal itself and shutdown once an evaluation license terminates.

### Q: are there any changes to existing methods for manual license loading (API or CLI)?

The `[`/sys/license`](/vault/api-docs/v1.10.x/system/license#install-license)` and `[`/sys/license/signed`](/vault/api-docs/v1.10.x/system/license#read-signed-license)` endpoints have been removed as of Vault 1.11. With that said, it is no longer possible to provide a license via the ``/sys/license`` endpoint. License `[auto-loading](/vault/docs/enterprise/license/autoloading)` must be used instead.

The `[`/sys/config/reload/license`](/vault/api-docs/system/config-reload#reload-license-file)` endpoint can be used to reload an auto-loaded license provided as a path via an environment variable or configuration.

### Q: is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration,

Vault will seal and will require a valid license to unseal and function properly.

### Q: are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

### Q: will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .

Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

Starting Vault 1.11, when customers deploy new Vault clusters, or upgrade existing Vault clusters, a valid `[auto-loaded](/vault/docs/enterprise/license/autoloading)` license must exist for the upgrade to be successful.

###

Q: what scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.11 or later, a valid license must exist to successfully deploy. This valid license must be on-disk ([auto-loaded](/vault/docs/enterprise/license/autoloading)).

- **Eventual Migration**: Vault 1.11 removes support for in-storage licenses. Migrating to an auto-loaded license is required for Vault to start successfully using version 1.11 or greater. Pre-existing license storage entries will be automatically removed from storage upon startup.

### Q: what is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault cluster using a stored license is planned to be upgraded to Vault 1.11 or greater, the operator must migrate to using an auto-loaded license. The [vault license get -signed](/vault/docs/v1.10.x/commands/license/get) command

(or underlying [sys/license/signed](/vault/api-docs/v1.10.x/system/license#read-signed-license) endpoint) can be used to retrieve the license from storage in a running cluster.

It is not necessary to remove the stored license entry. That will occur automatically upon startup in Vault 1.11 or greater. Prior to completing the [recommended upgrade steps](/vault/docs/upgrading), perform the following to ensure your license is properly configured:

1. Use the command `vault license get -signed` to retrieve the license from storage of your running cluster.
2. Put the license on disk
3. Configure license auto-loading by specifying the [license\_path](/vault/docs/configuration#license\_path) config option or setting the [VAULT\_LICENSE](/vault/docs/commands#vault\_license) or [VAULT\_LICENSE\_PATH](/vault/docs/commands#vault\_license\_path) environment variable.

### Q: what is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.11 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.11 version. Please refer to the [upgrade procedures](/vault/tutorials/standard-procedures/sop-upgrade) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.11 enterprise binary version they wish to roll back, and bring up the clusters.

### Q: is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, as we have announced in [Vault feature deprecations and plans](/vault/docs/deprecation) we are removing support for licenses in storage with

Vault 1.11. This implies licensing endpoints that deal with licenses in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have [auto-loaded](/vault/docs/enterprise/license/autoloading) licenses to upgrade to 1.11(+) successfully.

### Q: what are the steps to upgrade from one auto-loaded license to another auto-loaded license?

Follow these steps to migrate from one auto-loaded license to another auto-loaded license.

1. Use the `[`vault license inspect`](/vault/docs/commands/license/inspect)` command to compare the new license against the output of the `[`vault license get`](/vault/docs/commands/license/get)` command. This is to ensure that you have the correct license.

1. Backup the old license file in a safe location.

1. Replace the old license file on each Vault server with the new one.

1. Invoke the `[reload command](/vault/api-docs/system/config-reload#reload-license-file)` on each individual Vault server, starting with the standbys and doing the leader last. Invoking in this manner reduces possible disruptions if something was performed incorrectly with the above steps. You can either use the `[reload command](/vault/api-docs/system/config-reload#reload-license-file)` or send a SIGHUP.

1. On each node, ensure that the new license is in use by using the `[`vault license get`](/vault/docs/commands/license/get)` command and/or checking the logs.

# ADP licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

### Q: what are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

**\*\*ADP-KM\*\*** includes:

- [Key Management Secrets Engine (KMSE)](/vault/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/vault/docs/secrets/kmip)
- [MSSQL Transparent Data Encryption (TDE)](<https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault>)

**\*\*ADP-Transform\*\***

includes:

- [Transform Secrets Engine (TSE)](/vault/docs/secrets/transform)

### Q: how can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

**\*\*ADP-KM includes\*\***:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without the purchase of a Vault Enterprise Standard license.
- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in

Vault Community Edition and ADP-KM (KMSE and KMIP).

**\*\*ADP-Transform includes\*\***:

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.

-

The ADP-Transform SKU can be applied as an add-on. This workflow is similar to the consolidated ADP SKU.

### Q: what is the impact to customers based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **\*\*New customers\*\*** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.

- **\*\*Existing customers\*\*** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).

---

layout: docs

page\_title: License Autoloading

description: An overview of license autoloading.

---

# License autoloading

@include 'alerts/enterprise-and-hcp-plus.mdx'

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries that contained embedded licenses, or via a license written into Vault storage using the [POST sys/license API](/vault/api-docs/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended mechanism for managing licenses is called License Autoloading. New clusters are required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order of priority (i.e. `VAULT\_LICENSE` takes precedence over `VAULT\_LICENSE\_PATH`, which takes precedence over `license\_path` in config.)

- [VAULT\_LICENSE environment variable](/vault/docs/commands#vault\_license)

- [VAULT\_LICENSE\_PATH environment variable](/vault/docs/commands#vault\_license\_path)

- [license\_path

in config](/vault/docs/configuration#license\_path)

Nodes within a cluster should be consistently licensed. All nodes in a cluster should use autoloading, or none should. If autoloading is used, all nodes should use the same license string. Warnings will be written to the log when there

are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence of a stored license in conjunction with an autoloaded license will also result in logged warnings, which may require a service restart to clear.

# Copyright (c) HashiCorp, Inc.

# SPDX-License-Identifier: BUSL-1.1

```
variable "file_name" {}
```

```
output "license" {  
  value = file(var.file_name)  
}
```

---

layout: docs

page\_title: license inspect - Command

description: |-

The "license inspect" command describes the contents of a signed license string.

---

# license inspect

The `license inspect` command describes the contents of a signed license string.

## Examples

Describe license in the environment (either `VAULT\_LICENSE` for a raw value or `VAULT\_LICENSE\_PATH` for the path to a file containing the value):

```
```shell-session
```

```
$ vault license inspect
```

```
Source: /Users/ncc/vaults/license
```

```
Product: vault
```

```
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
```

```
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
```

```
Installation ID: *
```

```
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
```

```
Start Time: 2021-05-17 00:00:00 +0000 UTC
```

```
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
```

```
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
```

```
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
```

License is valid

---

Describe license at given path:

```
```shell-session
```

```
$ vault license inspect ~/vaults/license
```

```
Source: /Users/ncc/vaults/license
```

```
Product: vault
```

```
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
```

```
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
```

```
Installation ID: *
```

```
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
```

```
Start Time: 2021-05-17 00:00:00 +0000 UTC
```

```
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
```

```
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
```

```
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
```

License is valid

---

## ## Usage

The following flags are available in addition to the [standard set of flags](/vault/docs/commands) included on all commands.

### ### Command options

- `--installation-id` (string: "") - Installation ID to validate the license against

/\*\*

\* Copyright (c) HashiCorp, Inc.

\* SPDX-License-Identifier: BUSL-1.1

\*/

```
.license-banner-wrapper {  
  width: 100%;  
  max-width: 1344px;  
  margin: $spacing-l auto 0;  
  padding: 0 1.5rem;  
}
```

### ### Enterprise licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: MPL-2.0
```

```
package license
```

```
// Features is a bitmask of feature flags
```

```
type Features uint
```

```
const FeatureNone Features = 0
```

```
func (f Features) HasFeature(flag Features) bool {
```

```
    return false
```

```
}
```

```
### vault.core.license.expiration_time_epoch ((#vault-core-license-expiration_time_epoch))
```

```
Metric type | Value | Description
```

```
----- | ----- | -----
```

```
gauge | timestamp | Epoch time (seconds since 1970-01-01) at which the license will expire
```

```
---
```

```
layout: docs
```

```
page_title: license - Command
```

```
description: |-
```

```
The "license" command groups subcommands for interacting with Vault licenses.
```

```
---
```

```
# license
```

```
The `license` command groups subcommands for interacting with Vault licenses
```

```
For more information, please see the [license documentation](/vault/docs/enterprise/license)
```

```
## Examples
```

```
Query current license in use by a node:
```

```
```shell-session
```

```
$ vault license get
```

```
Key          Value
```

```
---
```

```
expiration_time      2022-05-17T23:59:59.999Z
```

```
features              [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
```

```
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
```

```
Key Management Secrets Engine Automated Snapshots]
```

```
license_id            060d7820-fa59-f95c-832b-395db0aeb9ba
```



```
performance_standby_count 9999
start_time                2021-05-17T00:00:00Z
...

```

Inspect a license string:

```
```shell-session
$
vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

```

```
License
is valid

```

```
...

```

```
## Usage

```

```
```text
Usage: vault license <subcommand> [options] [args]

```

```
# ...

```

Subcommands:

```
get    Query Vault's license
inspect View the contents of a license string
...

```

For more information, examples, and usage about a subcommand, click on the name of the subcommand in the sidebar.

# 1.366 cffi 1.16.0

## 1.366.1 Available under license :

libffi - Copyright (c) 1996-2003 Red Hat, Inc.

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## 1.367 urllib3 1.26.17

### 1.367.1 Available under license :

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## 1.368 java™-native-access 5

### 1.368.1 Available under license :

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Version 3, 29 June 2007

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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onoMnApeShTpQtDJbcUgJTIFONPQeUndIgfQWWNNddIwBl  
mi2Kp5RjfhIJdGCSobOTNof2KNxm9KCi5lxEyKI9BJW3p  
qOPQUXpopOopMMPqnPnXXQPNOPNRnqQNQqStwVxuQSTtVW  
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ntsmmmmmUUFmbkWJlroZbW4bsbilmjkbqUUnmmmm

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed  
their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to  
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.  
No source code of the original library was modified.

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework



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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

## 1.374 mitchellh-mapstructure 1.5.0

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include/bsd/err.h

include/bsd/stdlib.h

include/bsd/sys/param.h

include/bsd/unistd.h

src/bsd\_getopt.c

src/err.c

src/fgetln.c

src/progname.c

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include/bsd/sys/time.h

include/bsd/timeconv.h

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man/bitstring.3bsd

man/errc.3bsd

man/explicit\_bzero.3bsd

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man/fgetwln.3bsd

man/fpurge.3bsd

man/funopen.3bsd

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man/heapsort.3bsd

man/nlist.3bsd

man/pwcache.3bsd

man/queue.3bsd

man/radixsort.3bsd

man/reallocarray.3bsd

man/reallocf.3bsd

man/setmode.3bsd

man/strmode.3bsd

man/strnstr.3bsd

man/strtoi.3bsd

man/strtou.3bsd

man/unvis.3bsd

man/vis.3bsd

man/wcsncpy.3bsd

src/getbsize.c

src/heapsort.c

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man/fmtcheck.3bsd  
man/humanize\_number.3bsd  
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src/fmtcheck.c  
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man/expand\_number.3bsd  
man/flopen.3bsd  
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man/pidfile.3bsd

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man/strlcpy.3bsd  
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src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/freezero.c

src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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# 1.381 openssl 1.1.1w-0+deb11u1

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## 1.382 avro 1.11.3

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flink-avro

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# 1.385 curl 8.4.0

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# 1.387 jacoco-core 0.8.9

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Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: Apache Maven Bundle Plugin  
Built-By: root  
Build-Jdk: 11.0.16  
Automatic-Module-Name: org.jacoco.core  
Bnd-LastModified: 1680299839890  
Bundle-Description: JaCoCo Core  
Bundle-License: <https://www.eclipse.org/legal/epl-2.0/>



Bundle-ManifestVersion: 2  
Bundle-Name: JaCoCo Core  
Bundle-RequiredExecutionEnvironment: J2SE-1.5  
Bundle-SymbolicName: org.jacoco.core  
Bundle-Vendor: Mountainminds GmbH & Co. KG  
Bundle-Version: 0.8.9.202303310957  
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;path="org.jacoco.core";commitId=c0ad7810555f4c19ab8da68e94d4bf9344481564  
Export-Package: org.jacoco.core.internal;x-internal:=true;version="0.8.9",org.jacoco.core.internal.analysis;x-internal:=true;version="0.8.9";uses="org.jacoco.core.analysis,org.jacoco.core.internal.analysis.filter,org.jacoco.core.internal.flow,org.objectweb.asm,org.objectweb.asm.tree",org.jacoco.core.internal.analysis.filter;x-internal:=true;version="0.8.9";uses="org.objectweb.asm.tree",org.jacoco.core.internal.data;x-internal:=true;version="0.8.9",org.jacoco.core.internal.flow;x-internal:=true;version="0.8.9";uses="org.jacoco.core.internal.analysis,org.objectweb.asm,org.objectweb.asm.commons,org.objectweb.asm.tree",org.jacoco.core.internal.instr;x-internal:=true;version="0.8.9";uses="org.jacoco.core.internal.flow,org.jacoco.core.runtime,org.objectweb.asm",org.jacoco.core;version="0.8.9",org.jacoco.core.analysis;version="0.8.9";uses="org.jacoco.core.data,org.jacoco.core.internal.analysis",org.jacoco.core.data;version="0.8.9";uses="org.jacoco.core.internal.data",org.jacoco.core.instr;version="0.8.9";uses="org.jacoco.core.runtime",org.jacoco.core.runtime;version="0.8.9";uses="org.jacoco.core.data,org.objectweb.asm",org.jacoco.core.tools;version="0.8.9";uses="org.jacoco.core.data"  
Import-Package: org.jacoco.core;version="[0.8.9,0.8.10)",org.jacoco.core.analysis;version="[0.8.9,0.8.10)",org.jacoco.core.data;version="[0.8.9,0.8.10)",org.jacoco.core.internal;version="[0.8.9,0.8.10)",org.jacoco.core.internal.analysis;version="[0.8.9,0.8.10)",org.jacoco.core.internal.analysis.filter;version="[0.8.9,0.8.10)",org.jacoco.core.internal.data;version="[0.8.9,0.8.10)",org.jacoco.core.internal.flow;version="[0.8.9,0.8.10)",org.jacoco.core.internal.instr;version="[0.8.9,0.8.10)",org.jacoco.core.runtime;version="[0.8.9,0.8.10)",org.objectweb.asm;version="[9.5.0,9.6)",org.objectweb.asm.commons;version="[9.5.0,9.6)",org.objectweb.asm.tree;version="[9.5.0,9.6)"  
Originally-Created-By: Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.5))"  
Tool: Bnd-3.5.0.201709291849

Found in path(s):

\* /opt/cola/permits/1822810146\_1697442760.3711686/0/org-jacoco-core-0-8-9-1-jar/META-INF/MANIFEST.MF

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Evgeny Mandrikov - initial API and implementation

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Found in path(s):

\* /opt/cola/permits/1822810146\_1697442760.3711686/0/org-jacoco-core-0-8-9-1-jar/META-INF/maven/org.jacoco/org.jacoco.core/pom.xml

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Found in path(s):

\* /opt/cola/permits/1822810146\_1697442760.3711686/0/org-jacoco-core-0-8-9-1-jar/about.html

# 1.388 okio 1.17.6

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\* /opt/cola/permits/1822810147\_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/ForwardingTimeout.java

\* /opt/cola/permits/1822810147\_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/SegmentedByteString.java

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Found in path(s):

```
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/HashingSink.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Pipe.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/HashingSource.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Options.java
```

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* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Util.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Sink.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/GzipSource.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Segment.java
*
```

```
/opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/DeflaterSink.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/InflaterSource.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Timeout.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/GzipSink.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/ForwardingSource.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/ForwardingSink.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/AsyncTimeout.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Buffer.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/SegmentPool.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Source.java
*
/opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/BufferedSink.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/RealBufferedSource.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/Okio.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/BufferedSource.java
* /opt/cola/permits/1822810147_1697442763.0025148/0/okio-1-17-6-sources-jar/okio/RealBufferedSink.java
```

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# 1.390 python-setuptools 65.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  |              |           |            |                     |
| 2.1.1          | 2001-now     | PSF       |            | yes                 |

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## 1.391 pcre 7.8

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## 1.392 python-pip 23.2.1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |

|               |           |          |     |     |
|---------------|-----------|----------|-----|-----|
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF | yes |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
| 2.1.2         | 2.1.1     | 2002     | PSF | yes |
| 2.1.3         | 2.1.2     | 2002     | PSF | yes |
| 2.2 and above | 2.1.1     | 2001-now | PSF | yes |

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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## 1.393 supervisor 4.2.5

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>  
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Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----  
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

-----

#### MortBay

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.402 jetty-util-ajax 9.4.53.v20231009

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The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

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- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
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org.apache.tomcat:tomcat-util-scan  
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The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----  
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api



- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

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The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

-----

#### MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.408 pyasn1 0.5.1

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```
[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
    Documentation=https://pyasn1.readthedocs.io
    Source=https://github.com/pyasn1/pyasn1
    Issues=https://github.com/pyasn1/pyasn1/issues
    Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Console
    Intended Audience :: Developers
    Intended Audience :: Education
    Intended Audience :: Information Technology
    Intended Audience :: System Administrators
    Intended Audience :: Telecommunications Industry
    License :: OSI Approved :: BSD License
    Natural Language :: English
    Operating System :: OS Independent
```

Programming Language :: Python :: 2  
Programming Language :: Python :: 2.7  
Programming Language :: Python :: 3  
Programming Language :: Python :: 3.6  
Programming Language :: Python :: 3.7  
Programming Language :: Python :: 3.8  
Programming Language :: Python :: 3.9  
Programming Language :: Python :: 3.10  
Programming Language :: Python :: 3.11  
Programming Language :: Python :: Implementation :: CPython  
Programming Language :: Python :: Implementation :: PyPy  
Topic :: Communications  
Topic :: Software Development :: Libraries :: Python Modules

[options]

python\_requires = >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*, !=3.5.\*

zip\_safe = True

setup\_requires = setuptools

packages =

pyasn1

pyasn1.type

pyasn1.compat

pyasn1.codec

pyasn1.codec.ber

pyasn1.codec.cer

pyasn1.codec.der

pyasn1.codec.native

[bdist\_wheel]

universal

= 1

[egg\_info]

tag\_build =

tag\_date = 0

Found in path(s):

\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/setup.cfg

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..\_license:

License

=====

.. include:: ../LICENSE.rst

Found in path(s):

\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/docs/source/license.rst  
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## ASN.1 library for Python

=====

```
.. toctree::  
    :maxdepth: 1
```

### Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

### What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions](https://news.ycombinator.com/item?id=8871453) <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing

arbitrarily complex, nested data structures.

\* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

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Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

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Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
.. toctree::  
    :maxdepth: 2  
  
    /pyasn1/contents
```

## Use case

-----

```
.. toctree::  
    :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
    :maxdepth: 1
```

/changelog

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

## Getting help

-----

Please, file your `issues` <<https://github.com/pyasn1/pyasn1/issues>>`\_` and `PRs` <<https://github.com/pyasn1/pyasn1/pulls>>`\_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_` or search

`pyasn1-users <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_  
mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson
- \* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards  
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

- \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/docs/source/contents.rst
- No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1

Name: pyasn1

Version: 0.5.0

Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Home-page: <https://github.com/pyasn1/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: pyasn1 maintenance organization

Maintainer-email: Christian Heimes <[christian@python.org](mailto:christian@python.org)>

License: BSD-2-Clause

Project-URL: Documentation, <https://pyasn1.readthedocs.io>

Project-URL: Source, <https://github.com/pyasn1/pyasn1>

Project-URL: Issues, <https://github.com/pyasn1/pyasn1/issues>

Project-URL: Changelog, <https://pyasn1.readthedocs.io/en/latest/changelog.html>

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers  
Classifier: Intended Audience :: Education  
Classifier: Intended Audience :: Information Technology  
Classifier: Intended Audience :: System Administrators  
Classifier: Intended Audience  
:: Telecommunications Industry  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Natural Language :: English  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: 3.9  
Classifier: Programming Language :: Python :: 3.10  
Classifier: Programming Language :: Python :: 3.11  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Communications  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Requires-Python: !=3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*,!=3.4.\*,!=3.5.\*,>=2.7  
Description-Content-Type: text/markdown  
License-File:  
LICENSE.rst

ASN.1 library for Python

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
[![Build  
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)  
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Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)  
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

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\*\*NOTE:\*\*

The package is now maintained by \*Christian Heimes\* and \*Simon Pichugin\* in project <https://github.com/pyasn1/pyasn1>.

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Can operate on streams of serialized data
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.7 and 3.6+
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- \* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
    id    INTEGER,
```



```

room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
}
```

```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
```

```

```
00000: 30 07 02 01 7B 80 02 01 41
```

```
...
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
...
```
```

>>>  
^^^

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/pyasn1/pyasn1-modules>).

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ASN.1 library for Python

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)
```

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\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/test\_char.py  
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\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/opentype.py  
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\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/cer/test\_encoder.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/tag.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/der/test\_decoder.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/ber/decoder.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/base.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/compat/test\_integer.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/tagmap.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/univ.py  
\*  
/opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/\_\_main\_\_.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/test\_useful.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/cer/encoder.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/compat/\_\_main\_\_.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/compat/test\_octets.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/streaming.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/der/\_\_main\_\_.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/setup.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/native/encoder.py  
\*  
/opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/\_\_main\_\_.py  
\* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-

0.5.0/tests/codec/native/test\_encoder.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/test\_opentype.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/test\_tag.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/namedval.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/test\_namedtype.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/cer/\_\_main\_\_.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/useful.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/ber/test\_decoder.py  
 \*  
 /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/cer/decoder.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/test\_debug.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/type/test\_constraint.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/constraint.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/der/test\_encoder.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/debug.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/der/encoder.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/der/decoder.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/codec/native/decoder.py  
 \*  
 /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/tests/codec/\_\_main\_\_.py  
 \* /opt/cola/permits/1850703216\_1700585866.9191499/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1/type/namedtype.py

## 1.409 colorama 0.4.6

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## 1.412 wheel 0.42.0

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## 1.414 go-syslog 1.0.0

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### 1.415.1 Available under license :

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# 1.416 consul 1.26.1

## 1.416.1 Available under license :

```
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# This workflow checks that the BUSL license is not mentioned anywhere in
# a PR targeting a release that should maintain the MPL-2.0 license.
name: License Checker

on:
  pull_request:
    # Logic to only apply check 1.1[4,5,6].x branches is in license_checker.sh
    types: [opened, synchronize]

jobs:
  # checks that the diff does not contain any reference to
  # the BUSL license and thus retains the MPL-2.0 license
  license-check:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@c85c95e3d7251135ab7dc9ce3241c5835cc595a9 # v3.5.3
        with:
          ref: ${ github.event.pull_request.head.sha }
          fetch-depth: 0 # by default the checkout action doesn't checkout all branches
      - name: Check for BUSL text in diff
        run: ./github/scripts/license_checker.sh
    ---
  layout: api
  page_title: License - Operator - HTTP API
  description: |-
    The /operator/license endpoint allows for retrieving the Consul
    Enterprise License.
  ---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.
```

| Method | Path | Produces |
|--------|------|----------|
|--------|------|----------|

```
| ----- | ----- | ----- |
| `GET` | `/operator/license` | `application/json` |
```

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

```
| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| -----
| ----- | ----- | ----- |
| `NO`      | `all`      | `none`      | `none`      |
```

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

### ### Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request.`

### ### Sample Request

```
```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```
```

### ### Sample Response

```
```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
  ]
}
```



```

    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []
}
```

```

### ## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

| Method | Path              | Produces         |
|--------|-------------------|------------------|
| PUT    | /operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required   |
|------------------|-------------------|---------------|----------------|
| NO               | none              | none          | operator:write |

The corresponding CLI command is [consul license put](/consul/commands/license#put).

### ### Query Parameters

-dc (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request.

### ### Sample Payload

The payload is the raw license blob.

### ### Sample Request

```
```shell-session
```

```
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
...

```

### ### Sample Response

```
```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product":
    "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
...

```

### ## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

| Method                | Path                              | Produces                         |
|-----------------------|-----------------------------------|----------------------------------|
| <code>`DELETE`</code> | <code> `/operator/license`</code> | <code> `application/json`</code> |

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required     |
|------------------|-------------------|---------------|------------------|
| `NO`             | `none`            | `none`        | `operator:write` |

The corresponding CLI command is `consul license reset` (/consul/commands/license#reset).

### ### Query Parameters

- `dc` (string: "`")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request.`

### ### Sample Request

```
```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```
```

### ### Sample Response

```
```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
    ]
  }
}
```

```

    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []
}
...
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

@import './skin';
@import './layout';
/**
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 * SPDX-License-Identifier: BUSL-1.1
 */

.consul-intention-permission-form {
  h2 {
    padding-top: 1.4em;
    margin-top: 0.2em;
    margin-bottom: 0.6em;
  }
  .consul-intention-permission-header-form {
    margin-top: 10px;
  }
  fieldset:nth-child(2) > div,
  .consul-intention-permission-header-form fieldset > div {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
    grid-gap: 12px;
  }
  fieldset:nth-child(2) > div label:last-child {
    grid-column: span 2;
  }
  .ember-basic-dropdown-trigger {
    padding: 5px;
  }
  .checkbox-group {
    flex-direction: column;
  }
}
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1

```

\*/

```
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
  @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
  @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
  @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
  @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
  @extend %pill-deny;
}
```

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---

layout: docs

page\_title: Storing the Enterprise License in Vault

description: >-

Configuring the Consul Helm chart to use an enterprise license stored in Vault.

---

# Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.

## Overview

Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:

1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:

1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Update the Consul on Kubernetes helm chart.

### ## Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes, you will need to have:

1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

### ## Store the Secret in Vault

First, store the enterprise license in Vault:

```
```shell-session
$ vault kv put secret/consul/license key="<enterprise license>"
```
```

### ## Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

```
<CodeBlockConfig filename="license-policy.hcl">
```

```
```HCL
path
"secret/data/consul/license" {
  capabilities = ["read"]
}
```
```

```
</CodeBlockConfig>
```

Apply the Vault policy by issuing the `vault policy write` CLI command:

```
```shell-session
```

```
$ vault policy write license-policy license-policy.hcl
```

```
...
```

```
## Create Vault Authorization Roles for Consul
```

Next, you will create Kubernetes auth roles for the Consul server and client:

```
```shell-session
```

```
$ vault write auth/kubernetes/role/consul-server \  
  bound_service_account_names=<Consul server service account> \  
  bound_service_account_namespaces=<Consul installation namespace> \  
  policies=license-policy \  
  ttl=1h
```

```
...
```

```
```shell-session
```

```
$ vault write auth/kubernetes/role/consul-client \  
  bound_service_account_names=<Consul client service account> \  
  bound_service_account_namespaces=<Consul installation namespace> \  
  policies=license-policy \  
  ttl=1h
```

```
...
```

To find out the service account names of the Consul server and client,

you can run the following `helm

template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name

```
```shell-session
```

```
$ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
```

```
...
```

- Generate Consul client service account name

```
```shell-session
```

```
$ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
```

```
...
```

```
## Update Consul on Kubernetes Helm chart.
```

Now that you have configured Vault, you can configure the Consul Helm chart to

use the enterprise license in Vault:

```
<CodeBlockConfig filename="values.yaml">
```

```
```yaml
```

```
global:
```



```
image: hashicorp/consul-enterprise:1.12.0-ent
secretsBackend:
  vault:
    enabled: true
    consulServerRole: consul-server
    consulClientRole: consul-client
enterpriseLicense:
  secretName: secret/data/consul/enterpriselicence
  secretKey: key
...

```

</CodeBlockConfig>

Note that ``global.enterpriseLicense.secretName``  
is the path of the secret in Vault.

This should be the same path as the one you included in your Vault policy.

``global.enterpriseLicense.secretKey`` is the key inside the secret data. This should be the same  
as the key you passed when creating the enterprise license secret in Vault.

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```
/**
```

```
* Copyright (c) HashiCorp, Inc.
```

```
* SPDX-License-Identifier: BUSL-1.1
```

```
*/
```

```
.consul-intention-permission-header-list {  
  max-height: 200px;  
  overflow: auto;  
}  
{{!  
  Copyright (c) HashiCorp, Inc.  
  SPDX-License-Identifier: BUSL-1.1  
}}
```

```
{{#if (gt items.length 0)}}  
<ListCollection  
  class="consul-intention-permission-header-list"  
  @items={{ items }}  
  @scroll="native"  
  @cellHeight={{ 42 }}  
as |item|>  
  <BlockSlot @name="details">  
    <dl>  
      <dt>  
        <Tooltip>  
          Header  
        </Tooltip>  
      </dt>  
      <dd>  
        {{ item.Name }} {{ route-match item }}  
      </dd>  
    </dl>  
  </BlockSlot>  
  <BlockSlot @name="actions" as |Actions|>
```

```
<Actions as |Action|>
  <Action data-test-delete-action @onclick={{ action ondelete item }} class="dangerous">
    <BlockSlot @name="label">
      Delete
    </BlockSlot>
    <BlockSlot @name="confirmation" as |Confirmation|>
      <Confirmation class="warning">
        <BlockSlot @name="header">
          Confirm delete
        </BlockSlot>
        <BlockSlot @name="body">
          <p>
            Are you sure you want to delete this header?
          </p>
        </BlockSlot>
      </Confirmation>
    </BlockSlot>
  </Action>
</Actions>
</BlockSlot>
</ListCollection>
{{/if}}
```

```
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
  Consul-Terraform-Sync Enterprise License
---
```

# Consul-Terraform-Sync Enterprise License

```
<EnterpriseAlert>
  Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>
```

CTS Enterprise binaries require a [\[Consul Enterprise license\]\(/consul/docs/enterprise/license/overview\)](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [\[trial license for Consul Enterprise\]\(/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise\)](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

## ## Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul, as HCP Consul licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

## ## Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL\_LICENSE` environment variable to the license string.

```
```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```
```

1. Set the `CONSUL\_LICENSE\_PATH` environment variable to the path of the file containing the license.

```
```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```
```

1. To point to the file containing the license, in the configuration file, configure the [license](/consul/docs/nia/configuration#license) path option.

```
```hcl
license {
  path = "<PATH>/<TO>/<FILE>"
}
```
```

1. To point to the file containing the license, in the configuration file, configure the [license\_path](/consul/docs/nia/configuration#license\_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

```
```hcl
license_path = "<PATH>/<TO>/<FILE>"
```
```

~> **Note**: the [options to set the license and the order of precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.

Visit the [\[Enterprise License Tutorial\]](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

### ### Updating the License Manually

To update the license when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file

1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

### ## License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will provide notifications in the system logs:

| Time period                                 | Behavior - auto-retrieval enabled (default) | Behavior - auto-retrieval disabled |
|---------------------------------------------|---------------------------------------------|------------------------------------|
| 30 days before expiration                   | License retrieval attempt every 24-hours    | Warning-level log every 24-hours   |
| 7 days before expiration                    | License retrieval attempt every 1 hour      | Warning-level log every 1 hour     |
| 1 day before expiration                     | License retrieval attempt every 5 minutes   | Warning-level log every 5 minutes  |
| 1 hour before expiration                    | License retrieval attempt every 1 minute    | Warning-level log every 1 minute   |
| At or after expiration (before termination) | License retrieval attempt every 1 minute    | Error-level log every 1 minute     |
| At or after termination and exit            | Error-level log and exit                    |                                    |

~> **Note**: Notification frequency and [grace period] behavior is the same as Consul Enterprise.

{{!

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}}

<div

```

...attributes
class="consul-intention-permission-header-form"
>
<FormGroup
  @name={{ name }}
as |group|>

  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
  )}}

  <fieldset>
    <div>
      <group.Element
        @name="HeaderType"
        @type="select"
      as |el|>
        <el.Label>Header type</el.Label>
        <PowerSelect
          @options={{ headerTypes }}
          @selected={{ headerType }}
          @onChange={{ action 'change' 'HeaderType' changeset }} as |Type|>
          {{ get headerLabels Type }}
        </PowerSelect>
      </group.Element>

      <group.Element
        @name="Name"
        @error={{ changeset.get changeset 'error.Name' }}
      as |el|>
        <el.Label>Header name</el.Label>
        <el.Text

          @value={{ changeset.get changeset 'Name' }}
          oninput={{ action 'change' 'Name' changeset }}
        />
        <State @state={{ el.state }} @matches="error">
          <el.Error>
            {{ changeset.get changeset 'error.Name.validation' }}
          </el.Error>
        </State>
      </group.Element>

```

```

{{#if shouldShowValueField}}
  <group.Element
    @name="Value"
    @error={{ changeset-get changeset 'error.Value' }}
  as |el|>
    <el.Label>Header {{ lowercase (get headerLabels headerType) }}</el.Label>
    <el.Text
      @value={{ changeset-get changeset 'Value' }}
      oninput={{ action 'change' 'Value' changeset }}
    />
    <State @state={{ el.state }} @matches="error">
      <el.Error>
        {{ changeset-get changeset 'error.Value.validation' }}
      </el.Error>
    </State>
  </group.Element>
{{/if}}

</div>
</fieldset>
</FormGroup>
</div>
{
  "name": "envoy.filters.http.rbac",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
    "rules": {
      "policies": {
        "consul-intentions-layer7-0": {
          "permissions": [
            {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
                      "path": {
                        "exact": "/v1/secret"
                      }
                    }
                  }
                ],
              },
            },
            {
              "andRules": {
                "rules": [
                  {
                    "metadata": {
                      "filter": "envoy.filters.http.jwt_authn",
                      "path": [
                        {

```

```

        "key": "jwt_payload_auth0"
      },
      {
        "key": "iss"
      }
    ],
    "value": {
      "stringMatch": {
        "exact": "mytest.auth0-issuer"
      }
    }
  },
  {
    "metadata": {
      "filter": "envoy.filters.http.jwt_authn",
      "path": [
        {
          "key": "jwt_payload_auth0"
        },
        {
          "key": "perms"
        },
        {
          "key": "role"
        }
      ],
      "value": {
        "stringMatch": {
          "exact": "admin"
        }
      }
    }
  }
]
}
},
{
  "andRules": {
    "rules": [
      {
        "urlPath": {
          "path": {
            "exact": "/v1/admin"
          }
        }
      }
    ]
  }
}

```



```
    }
  }
},
{
  "notRule": {
    "urlPath": {
      "path": {
        "exact": "/v1/secret"
      }
    }
  }
}
]
}
},
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "googleRe2": {},
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        },
        {
          "andIds": {
            "ids": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              }
            ]
          }
        }
      ]
    }
  }
}
```

```
    }
  }
}
},
{
  "metadata": {
    "filter": "envoy.filters.http.jwt_authn",
    "path": [
      {
        "key": "jwt_payload_okta"
      },
      {
        "key": "roles"
      }
    ],
    "value": {
      "stringMatch": {
        "exact": "testing"
      }
    }
  }
}
]
}
]
}
}
]
}
}
}
{
  "name": "envoy.filters.http.rbac",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
    "rules": {
      "policies": {
        "consul-intentions-layer7-0": {
          "permissions": [
            {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
```

```

    "path": {
      "prefix": "some-path"
    }
  },
  {
    "andRules": {
      "rules": [
        {
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_okta"
              },
              {
                "key": "iss"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "mytest.okta-issuer"
              }
            }
          },
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_okta"
              },
              {
                "key": "roles"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "testing"
              }
            }
          }
        }
      ]
    }
  }
]
}

```

```

    }
  ]
}
],
"principals": [
  {
    "authenticated": {
      "principalName": {
        "safeRegex": {
          "googleRe2": {},
          "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
        }
      }
    }
  }
]
}
}
}
}
{
  "name": "envoy.filters.network.rbac",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
    "rules": {},
    "statPrefix": "connect_authz"
  }
}
{
  "Valid": true,
  "License": {
    "license_id": "${fake.random.uuid()}",
    "customer_id": "${fake.random.uuid()}",
    "installation_id": "*",
    "issue_time": "2021-01-13T15:25:19.052900132Z",
    "start_time": "2021-01-13T00:00:00Z",
    "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
    "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
    "product": "consul",
    "flags": {
      "modules": [
        "global-visibility-routing-scale",
        "governance-policy"
      ]
    }
  },
  "modules": [

```

```

    "Global Visibility, Routing and Scale",
    "Governance and Policy"
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
},
"Warnings": [
]
}
{
  "name": "envoy.filters.http.jwt_authn",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
    "providers": {
      "okta": {
        "issuer": "test-issuer",
        "payloadInMetadata": "jwt_payload_okta",
        "remoteJwks": {
          "asyncFetch": {
            "fastListener": true
          },
          "httpUri": {
            "cluster": "jwks_cluster_okta",
            "timeout": "1s",
            "uri": "https://example-okta.com/.well-known/jwks.json"
          }
        }
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {

```

```
"providerName": "okta"
  },
  {
    "allowMissingOrFailed": {}
  }
]
}
}
]
}
}
]
```

```
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */
```

```
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  > ul > li {
    @extend %list-row-200;
  }
}
/#!/
```

```
* QUnit 2.19.1
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
```

```
#!/
* clipboard.js v2.0.8
* https://clipboardjs.com/
*
* Licensed MIT Zeno Rocha
*/
```

```
#!/
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/
```

```
/*! *****
```

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\*\*\*\*\* \*/

```
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 */
```

```
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 */
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```

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# License

```
``hbs preview-template
<figure>
<figcaption>URI: <code>/:partition/:namespace/:dc/license</code></figcaption>
<DataSource
  @src={{
    uri '${partition}/${namespace}/${dc}/license'
    (hash
      partition='partition'
      namespace='ns'
      dc='dc-1'
    )
  }}
  @onchange={{ { action (mut data) value="data" } }}
/>
```

```
<pre><code>{ {json-stringify data null 4} }</code></pre>
```

```
</figure>
```

```
...
```

```
---
```

page\_title: Automated license utilization reporting

description: >-

Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

```
---
```

## # Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

### ## Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

### ## Requirements

Automated license utilization reporting does not support `_air-gapped installations_`, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](<https://releases.hashicorp.com/consul/>) page.

### ## Enable automated reporting

Before you enable automated reporting,

make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not



work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

```
### Allow outbound HTTPS traffic on port 443
```

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

```
- `100.20.70.12`  
- `35.166.5.222`  
- `23.95.85.111`  
- `44.215.244.1`
```

```
### Check product logs
```

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
...
```

```
[DEBUG] beginning snapshot export  
[DEBUG] creating payload  
[DEBUG] marshalling  
  payload to json  
[DEBUG] generating authentication headers  
[DEBUG] creating request  
[DEBUG] sending request  
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services  
[DEBUG] recording audit record  
[INFO] reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}},"metadata":{}}}  
[DEBUG] completed recording audit record  
[DEBUG] export finished successfully"  
...
```

</CodeBlockConfig>

If

your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

```
<CodeBlockConfig hideClipboard>
```

```
...
```

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

```
...
```

```
</CodeBlockConfig>
```

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

## ## Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```
```hcl
reporting {
  license {
    enabled = false
  }
}
```

...

When opting out using an environment variable, the system provides a startup message confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

```
<CodeBlockConfig>
```

```
```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```
```

```
</CodeBlockConfig>
```

After you set the environment variable, restart your system to complete the process for opting out.

```
```shell-session
$ consul reload
```
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

## Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`exporter\_version` - The version of the licensing exporter

```
<CodeBlockConfig hideClipboard>
```

```
```json
{
  "payload": {
    "payload_version": "1",
    "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
    "product": "consul",
    "product_version": "1.16.0-dev+ent",
    "export_timestamp":
"2023-05-26T20:09:13.753921087Z",
    "snapshots": [
      {
        "snapshot_version": 1,
        "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
        "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
        "timestamp": "2023-05-26T20:09:13.753513962Z",
        "schema_version": "1.0.0",

```

```

"service": "consul",
"metrics": {
  "consul.billable.nodes": {
    "key": "consul.billable.nodes",
    "kind": "counter",
    "mode": "write",
    "value": 2
  },
  "consul.billable.service_instances": {
    "key": "consul.billable.service_instances",
    "kind": "counter",
    "mode": "write",
    "value": 2
  }
}
},
"metadata": {}
}
}
...

```

</CodeBlockConfig>

{{!

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}}

<Hds::Alert @type='inline' @color={{ or @type "neutral" }} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>

<A.Title>Intention Custom Resource</A.Title>

<A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>

<A.Link::Standalone @href="{{ env 'CONSUL\_DOCS\_URL' }}/k8s/crds"

@text='Learn more about CRDs'

@icon="docs-link"

@iconPosition="trailing"

@size="small" />

</Hds::Alert>

/\*\*

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\*/

.consul-intention-permission-form {

h2 {

border-top: 1px solid var(--token-color-foreground-action);

```
@extend %display-400-semibold;
}
button.type-submit {
  @extend %frame-blue-300;
}
button.type-submit:hover:not(:disabled),
button.type-submit:focus:not(:disabled) {
  @extend %frame-blue-500;
}
button.type-submit:disabled {
  @extend %frame-blue-200;
}
}
```

```
.consul-intention-view {
h2 {
  @extend %display-400-semibold;
}
}
```

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```
{{!
```

```
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```

```
SPDX-License-Identifier: BUSL-1.1
```

```
}}
```

```
{{#if (gt items.length 0)}}
```

```
<ListCollection
```

```
class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
```

```
@scroll="native"
```

```
@items={{ items }}
```

```
@partial={{ 5 }}
```

```
as |item|>
```

```
<BlockSlot @name="details">
```

```
<div onclick={{ action (optional onclick) item }}>
```

```
<strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
```

```
{{#if (gt item.HTTP.Methods.length 0)}}
```

```
<dl class="permission-methods">
```

```
<dt>
```

```
<Tooltip>
```

```
Methods
```

```
</Tooltip>
```

```
</dt>
```

```
<dd>
```

```
{{#each item.HTTP.Methods as |item|}}
```

```
  {{ item }}
```

```
{{/each}}
```

```
</dd>
```

```
</dl>
```

```
{{/if}}
```

```
{{#if item.HTTP.Path}}
```

```
<dl class="permission-path">
```

```
<dt>
```

```
<Tooltip>
```

```
  {{ item.HTTP.PathType }}
```

```
</Tooltip>
```

```

        </dt>
        <dd>
            {{ item.HTTP.Path }}
        </dd>
    </dl>
{{/if}}
{{#each item.HTTP.Header
as |item|}}
    <dl class="permission-header">
        <dt>
            <Tooltip>
                Header
            </Tooltip>
        </dt>
        <dd>
            {{ item.Name }} {{ route-match item }}
        </dd>
    </dl>
{{/each}}
</div>
</BlockSlot>
{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
    <Actions as |Action|>
        <Action data-test-edit-action @onclick={{ action (optional onclick) item }} @close={{ true }}>
            <BlockSlot @name="label">
                Edit
            </BlockSlot>
        </Action>
        <Action data-test-delete-action @onclick={{ action ondelete item }} class="dangerous">
            <BlockSlot @name="label">
                Delete
            </BlockSlot>
            <BlockSlot @name="confirmation" as |Confirmation|>
                <Confirmation class="warning">
                    <BlockSlot @name="header">
                        Confirm delete
                    </BlockSlot>
                    <BlockSlot @name="body">
                        <p>
                            Are you sure you
want to delete this permission?
                        </p>
                    </BlockSlot>
                    <BlockSlot @name="confirm" as |Confirm|>
                        <Confirm>Delete</Confirm>
                    </BlockSlot>
                </Confirmation>
            </BlockSlot>
        </Action>
    </Actions>
</BlockSlot>

```

```
</BlockSlot>
</Action>
</Actions>
</BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
/**
```

```
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/
```

```
.agentless-node-notice .hds-alert__title {
  display: flex;
  justify-content: space-between;
}
```

---

layout: commands

page\_title: 'Commands: License'

description: >

The license command provides a datacenter-level view of the Consul Enterprise license.

---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text

Usage: consul license <subcommand> [options] [args]

This command has subcommands

for managing the Consul Enterprise license

Here are some simple examples, and more detailed examples are

available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:

```
$ consul license put "<license blob>"
```

Retrieve the current license:

```
$ consul license get
```

Inspect a license:

```
$ consul license inspect "<path to license file>"
```

Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:

```
get      Get the active license
inspect  Inspect a signed license
put      Puts a new license in the datacenter
reset    Resets the license in the datacenter
```

...

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

...



```
$ consul license inspect consul.hclic
```

```
...
```

Inspect a license loaded from the environment:

```
...
```

```
$ consul license inspect
```

```
...
```

This will look at the `CONSUL_LICENSE` environment variable first and if not present then we will look for the file specified by the `CONSUL_LICENSE_PATH` environment variable.

The output looks like this:

```
...
```

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
```

```
Product: consul
```

```
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
```

```
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
```

```
Installation ID: *
```

```
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
```

```
Start Time: 2020-09-14 00:00:00 +0000 UTC
```

```
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
```

```
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
```

```
Modules:
```

```
  Global Visibility, Routing and Scale
```

```
  Governance and Policy
```

```
Features:
```

```
  Automated Backups
```

```
  Automated Upgrades
```

```
  Enhanced Read Scalability
```

```
  Network Segments
```

```
  Redundancy Zone
```

```
  Advanced Network Federation
```

```
  Namespaces
```

```
  SSO
```

```
  Audit Logging
```

```
  Admin Partitions
```

```
License is valid
```

```
...
```

```
## put
```

-> **\*\*Deprecated\*\*** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will

always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: `[PUT] /v1/operator/license[/consul/api-docs/operator/license#updating-the-consul-license)`

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).

Configuration of

[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)

are not supported from commands, but may be

from the corresponding HTTP endpoint.

```
| ACL Required |
| ----- |
| `operator:write` |
```

Usage: ``consul license put [options] LICENSE``

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
```

#### API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

```
## get
```

Corresponding HTTP API Endpoint: `[GET] /v1/operator/license[/consul/api-docs/operator/license#getting-the-consul-license)`

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers will display the outdated license in their GET output.

The table below

shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

```
| ACL Required |
| ----- |
| `none`      |
```

Usage: `consul license get [options]`

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
```

#### API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

```
## reset
```

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: `[DELETE] /v1/operator/license`(/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.

If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).

Configuration of

[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)

are not supported from commands, but may be from the corresponding HTTP endpoint.

```
| ACL Required |
| ----- |
| `operator:write` |
```

Usage: `consul license reset [options]`

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
  At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
```

```
#### API Options
```

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: MPL-2.0
```

```
package api
```

```
import (
```

```
  "io"
```

```
  "strings"
```

```
  "time"
```

```

)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // Whether the license will ignore termination
    IgnoreTermination bool `json:"ignore_termination"`

    //
    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"`

    // List of features enabled by the license
    Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

```

```

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return "", err
    }

    data, err := io.ReadAll(resp.Body)
    if
    err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }
}

```

```

}
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}
return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
// via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.NewRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
}
}

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SPDX-License-Identifier: BUSL-1.1
}}

<Route
  @name={{ routeName }}
as |route|>
<DataLoader
  @src={{
    uri '${partition}/${namespace}/${dc}/license'
    (hash
      partition=route.params.partition
      namespace=route.params.namespace
      dc=route.params.dc
    )
  }}

```

```

    }}
  as |loader|>

  {{#let
  loader.data
  as |item|}}
    <BlockSlot @name="error">
      <ErrorState
        @error={{ loader.error }}
        @login={{ route.model.app.login.open }}
      />
    </BlockSlot>

    <BlockSlot @name="disconnected" as |after|>
      {{#if (eq loader.error.status "404")}}
        <Hds::Toast @color='warning'
          {{notification
            sticky=true
          }} as |T|>
          <T.Title>Warning!</T.Title>
          <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
        </Hds::Toast>
      {{else if (eq loader.error.status "403")}}
        <Hds::Toast @color='critical'
          {{notification
            sticky=true
          }} as |T|>
          <T.Title>Error!</T.Title>
          <T.Description>You no longer have access to this service.</T.Description>
        </Hds::Toast>
      {{else}}
        <Hds::Toast @color='warning'
          {{notification
            sticky=true
          }} as |T|>
          <T.Title>Warning!</T.Title>
          <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
        </Hds::Toast>
      {{/if}}
    </BlockSlot>

    <BlockSlot @name="loaded">
      <div class="tab-section">
        <section
          class={{ class-map
            'validity'
            (array 'valid' item.Valid)
          }}
        >

```



```

>
<header>
  <h2>
    {{ compute (fn route.t 'expiry.header')}}
  </h2>
</header>

<p>
  {{ compute (fn route.t 'expiry.${type}.body'
    (hash
      type=(if item.Valid 'valid' 'expired')

date=(format-time item.License.expiration_time
  year='numeric'
  month='long'
  day='numeric'
  )
  time=(format-time item.License.expiration_time
  hour12=true
  hour='numeric'
  hourCycle='h12'
  minute='numeric'
  second='numeric'
  timeZoneName='short'
  )
  htmlSafe=true
  )
)}}
</p>

<dl>
  <dt class={{ class-map
    (array 'valid' item.Valid)
    (array 'expired' (not item.Valid))
    (array 'warning' (temporal-within item.License.expiration_time 2629800000))
  }}
  >
    {{ compute (fn route.t 'expiry.${type}.header'
      (hash
        type=(if item.Valid 'valid' 'expired')
      )
    )}}
  </dt>

  <dd>
    {{ temporal-format item.License.expiration_time }}
  </dd>
</dl>

```

```

<aside>
  <header>
    <h3>
      {{ compute (fn route.t 'documentation.title')}}
    </h3>
  </header>
  <div class="flex gap-1.5 flex-col">
    <Hds::Link::Standalone
      @text={{ compute (fn route.t 'documentation.links.license-expiration.text')}}
      @href={{ concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
    <Hds::Link::Standalone
      @text={{ compute (fn route.t 'documentation.links.renewing-license.text')}}
      @href={{ concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
    <Hds::Link::Standalone
      @text={{ compute (fn route.t 'documentation.links.applying-new-license.text')}}
      @href={{ concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
  </div>
</aside>

</section>
</div>
</BlockSlot>
{{/let}}
</DataLoader>
</Route>
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

section[data-route='dc.show.license'] {
  @extend %license-route;
}
%license-route .validity {

```

```

@extend %license-validity;
}
%license-route aside {
  @extend %license-route-learn-more;
}

%license-route h2 {
  @extend %display-400-semibold;
}

%license-validity p {
  color: var(--token-color-foreground-faint);
}
%license-validity dl {
  @extend %horizontal-kv-list;
  @extend %body-300-regular;
}
%license-validity dl .expired + dd {
  @extend %visually-hidden;
}
%license-validity dl dt::before {
  content: ";
  margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
  --icon-name: icon-x-circle;
  --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
  --icon-name: icon-alert-circle;
  --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
  --icon-name: icon-check-circle;
  --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
{
  @extend %panel;
  box-shadow: none;
  padding: var(--padding-y) var(--padding-x);
  width: 40%;
  min-width: 413px;
  margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
  @extend %display-300-semibold;
}

```

```
}
%license-route-learn-more header {
  margin-bottom: 1rem; /* 16px */
}
```

---

layout: docs

page\_title: Enterprise License FAQ

description: >-

Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

---

## # Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

### ## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.

If the license is missing, invalid, or expired, the server will immediately exit.

This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.

This will no longer work since each server must be able to find a valid license during the startup process.

### ## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.

During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.

The upgrade process varies if ACLs are enabled or disabled in the cluster.

Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

### ## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs).

### ## Q: What resources are available?

The list below is a great starting point for learning more about the license

changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.

This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from <https://releases.hashicorp.com>.

The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,

a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.

The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.

The license can be provided on disk (auto-loaded) or as an environment variable.

There is no longer a 6-hour trial period in which Consul Enterprise server agents can operate without a license.

## Q: Is there a grace period when licenses expire?

\*\*Yes Consul will continue normal operation and can be restarted after license \*expiration\*\*\* as defined in [^expiration\_time`](/consul/api-docs/operator/license#getting-the-consul-license).

As

license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license \*termination\*, which occurs 10 years after license expiration and is defined in

[^termination\_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:

Please contact your support representative for more details on non-terminating licenses.

An expired license will not allow Consul versions released after the expiration date to run.

It will not be possible to upgrade to a new version of Consul released after license expiration.

**Q: Does this affect client agents?**

There are upgrade requirements that affect Consul Enterprise clients.

Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

**Q: Does this affect snapshot agents?**

Same behavior as Consul clients.

See answer for [Does this affect client agents? ](#q-does-this-affect-client-agents)

**Q: What is the behavior if the license is missing?**

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry\_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry\_join` addresses, the retry join addresses are addresses of the Consul servers.

**Q: Where can users get a trial license for Consul Enterprise?**

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial**

install will cease operation 24 hours after 30-day license expiration

Trial licenses are not meant to be used in production.

This is unlike non-trial licenses which provide a 10 year grace period as described in

the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

**Q: How can I renew a license?**

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

**Q: I'm an existing enterprise customer but don't have my license, how can I get it?**

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments

using 1.10.0+ent will need to have a valid license on servers to successfully deploy.

This valid license must be on-disk (auto-loaded) or as an environment variable.

Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.

1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs) for detailed steps on how to install the license key.

1. Follow the

Consul upgrade [documentation](/consul/docs/upgrading).

### ### Kubernetes

**\*\*NOTE:\*\*** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.

1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).

Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!> **\*\*Warning:\*\***

If you are upgrading the Helm chart but **\*\*not\*\*** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

**## Q:** What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### ### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.

1. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

### ### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

**## Q:** Will Consul downgrades/rollbacks work?

When downgrading to a version



of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.

This

also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.

You will need to add the following configuration.

---

server:

enterpriseLicense:

enableLicenseAutoload: false

---

---

layout: docs

page\_title: Enterprise Licenses

description: >-

Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.

---

# Consul Enterprise License

## Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> **Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.

This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.

Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [\[Enterprise License Tutorial\]](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

### ### Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.

For server agents this means that they must either have the `[`license_path`]` configuration set or have a license configured in the servers environment with the ``CONSUL_LICENSE`` or ``CONSUL_LICENSE_PATH`` environment variables. Both the configuration item and the ``CONSUL_LICENSE_PATH``

environment variable point to a file containing the license whereas the ``CONSUL_LICENSE`` environment variable should contain the license as the value. If multiple variables are set, the following order of precedence applies:

1. ``CONSUL_LICENSE`` environment variable
2. ``CONSUL_LICENSE_PATH`` environment variable
3. ``license_path`` configuration item.

Client agents and [\[snapshot agents\]](/consul/docs/enterprise/backups) may also be licensed in the very same manner.

However, to avoid the need to configure the license on many client agents and snapshot agents, those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.

- **If you used the ``CONSUL_LICENSE`` environment variable**: After updating the environment variable, restart the affected agents.

- **If you used the ``CONSUL_LICENSE_PATH``**

environment variable\*\*: Update the license file first. Then, restart the affected agents.

- \*\*If you used the `license\_path` configuration item\*\*: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

#### #### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry\_join) configuration. If `retry\_join` is unset or no [`agent` token`](/consul/docs/agent/config/config-files#acl\_tokens\_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks

pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL\_LICENSE` environment variable
2. `CONSUL\_LICENSE\_PATH` environment variable
3. `license\_path` configuration item.

#### #### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,

the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

/\*\*

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\*/

```
.consul-intention-permission-header-list {
```

```
  dt::before {
```

```
    @extend %with-glyph-icon;
```

```
    content: 'H';
```

```
  }
```

```
}
```

```
/**
```

```
* Copyright (c) HashiCorp, Inc.
```

```
* SPDX-License-Identifier: BUSL-1.1
```

```
*/
```

```
.consul-intention-permission-list {  
  dt::before {  
    @extend %with-glyph-icon;  
  }  
  dl.permission-methods dt::before {  
    content: 'M';  
  }  
  dl.permission-path dt::before {  
    content: 'P';  
  }  
  dl.permission-header dt::before {  
    content: 'H';  
  }  
}
```

```
/**
```

```
* Copyright (c) HashiCorp, Inc.
```

```
* SPDX-License-Identifier: BUSL-1.1
```

```
*/
```

```
.consul-intention-permission-list {  
  .detail > div {  
    display: flex;  
    width: 100%;  
  }  
  strong {  
    margin-right: 8px;  
  }  
}  
{{!  
  Copyright (c) HashiCorp, Inc.  
  SPDX-License-Identifier: BUSL-1.1  
}}
```

```
{{#if isVisible}}
```

```
<Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
```

```
<A.Title>
```

```
<span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
```

```
<Hds::Button
```

```
  @color='secondary'
```

```
  @text='Dismiss notice'
```

```
  {{on 'click' this.dismissAgentlessNotice}}
```

```
  @icon='x'
```

```
  @size='small'
```

```
  @isIconOnly={{true}}
```

```
</A.Title>
<A.Description>{{ t 'routes.dc.nodes.index.agentless.notice.body' }}</A.Description>
<A.Link::Standalone @href={{ env "CONSUL_DOCS_DEVELOPER_URL" }}/connect/dataplane'
    @text={{ t 'routes.dc.nodes.index.agentless.notice.footer' }}
    @icon='docs-link'
    @iconPosition='trailing' />
</Hds::Alert>
{{/if}}
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```

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```
{{!
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}}
```

```
<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
<A.Description>{{ t "components.consul.intention.notice.permissions.body" }}</A.Description>
<A.Link::Standalone
    @text={{ t "components.consul.intention.notice.permissions.footer" }}
    @href={{ env 'CONSUL_DOCS_URL' }}/connect/intentions"
    @icon="docs-link"
    @iconPosition="trailing"
    @size="small"
/>
</Hds::Alert>
{
  "name": "envoy.filters.http.jwt_authn",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
    "providers": {
      "auth0": {
        "issuer": "another-issuer",
        "payloadInMetadata": "jwt_payload_auth0",
        "remoteJwks": {
          "asyncFetch": {
            "fastListener": true
          },
        },
        "httpUri": {
          "cluster": "jwks_cluster_auth0",
          "timeout": "1s",
          "uri": "https://example-auth0.com/.well-known/jwks.json"
        }
      }
    },
    "okta": {
      "issuer": "test-issuer",
```

```

"payloadInMetadata": "jwt_payload_okta",
"remoteJwks": {
  "asyncFetch": {
    "fastListener": true
  },
  "httpUri": {
    "cluster": "jwks_cluster_okta",
    "timeout": "1s",
    "uri": "https://example-okta.com/.well-known/jwks.json"
  }
}
},
"rules": [
{
"match": {
  "prefix": "/"
},
"requires": {
  "requiresAll": {
    "requirements": [
      {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    ]
  },
  {
    "requiresAny": {
      "requirements": [
        {
          "providerName": "auth0"
        },
        {
          "allowMissingOrFailed": {}
        }
      ]
    }
  }
}
]
}
}

```

```
    }
  }
]
}
}
{{!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: BUSL-1.1
}}
```

```
<div
...attributes
class="consul-intention-permission-form"
```

```
>
<FormGroup
  @name={{ name }}
as |group|>
```

```
{{yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)
```

```
  isDirty=(and changeset.isValid)
  changeset=changeset
)}}}
```

```
<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{ if changeset.error.Action 'has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{ capitalize intent }}</span>
          <input
            type="radio"
            name="Action"
            value={{ intent }}
            checked={{ if (eq changeset.Action intent) 'checked'}}
            onchange={{ action (changeset-set changeset 'Action') value="target.value" }}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>
```

```

<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
    <group.Element
      @name="PathType"
      @type="select"
    as |el|>
      <el.Label>
        Path type
      </el.Label>
      <PowerSelect
        @options={{pathTypes}}
        @selected={{pathType}}
        @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
          {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

    {{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
    {{/if}}

  </div>
</fieldset>

```



```

<fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{ if allMethods 'checked' }}
        onchange={{ action 'change' 'allMethods' changeset }}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

  {{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
    <label class="type-checkbox">
      <input
        type="checkbox"
        name="method"
        value={{ method }}

        checked={{ if (includes method changeset.HTTP.Methods) 'checked' }}
        onchange={{ action 'change' 'method' changeset }}
      />
      <span>{{ method }}</span>
    </label>
    {{/each}}
  </div>
  {{/if}}
</fieldset>

```

```

<fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{ changeset-get changeset 'HTTP.Header' }}
    @ondelete={{ action 'delete' 'HTTP.Header' changeset }}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{ action 'add' 'HTTP.Header' changeset }}

```

```

as |headerForm|>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<Hds::ButtonSet>
  <Hds::Button
    data-test-add-header
    @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
    @color='primary'
    disabled={{if (not this.headerForm.isDirty)
'disabled'}}
    onclick={{action this.headerForm.submit}}
  />
  <Hds::Button
    @text='Cancel'
    @color='secondary'
    onclick={{action this.headerForm.reset}}
  />
</Hds::ButtonSet>
</fieldset>
</FormGroup>
</div>

```

# 1.417 go-jose-go-jose 3.0.1

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# 1.418 golang 1.21.5

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| 1.6            | 1.5.2        | 2000      | CNRI  | no                  |

|               |           |          |            |         |
|---------------|-----------|----------|------------|---------|
| 2.0           | 1.6       | 2000     | BeOpen.com | no      |
| 1.6.1         | 1.6       | 2001     | CNRI       | yes (2) |
| 2.1           | 2.0+1.6.1 | 2001     | PSF        | no      |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF        | yes     |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF        | yes     |
| 2.1.2         | 2.1.1     | 2002     | PSF        | yes     |
| 2.1.3         | 2.1.2     | 2002     | PSF        | yes     |
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# 1.420 typing-extensions 4.9.0

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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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=====

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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,  
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/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):

```
*/opt/cola/permits/1866420555_1702420805.8968983/0/bcpkix-fips-1-0-7-sources-2-
jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
```

# 1.423 libpng 1.6.39

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## 1.427 python-setuptools 69.0.3

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\* Determines if the { @link #getAuthentication() } has permission to access the target

```
* given the permission
* @param target the target domain object to check permission on
* @param permission the permission to check on the domain object (i.e. "read",
* "write", etc).
* @return true if permission
is granted to the { @link #getAuthentication()}, else
* false
*/
```

Found in path(s):

```
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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```

Found in path(s):

```
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/UserMixin.java
*
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/CoreJackson2Module.java
```



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Found in path(s):

```
*/opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 */
```

```
/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 *
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */
```

Found in path(s):

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/PermissionEvaluator.java

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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/annotation/AuthenticationPrincipal.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java

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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/token/SecureRandomFactoryBean.java

```
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
*
/opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/authentication/ReactiveAuthenticationManagerResolver.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
*
/opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java
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* limitations under the License.
*/
/**
* A token issued by { @link TokenService }.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* { @link TokenService } are free to use encryption or encoding strategies of their
* choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
*
*/
```

\* @author Ben Alex  
\* @since 2.0.1  
\*/

Found in path(s):

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/token/Token.java

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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/token/package-info.java

\*

/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/AccountStatusException.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/annotation/package-info.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/session/package-info.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/context/DelegatingApplicationListener.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/authority/mapping/package-info.java

\*

/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/cache/package-info.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/prepost/PreFilter.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/authority/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/dao/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/hierarchicalroles/NullRoleHierarchy.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/intercept/aspectj/MethodInvocationAdapter.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/cache/SpringCacheBasedUserCache.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/authority/mapping/SimpleAuthorityMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/jackson2/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/jdbc/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/expression/package-info.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/provisioning/MutableUser.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/event/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/intercept/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/prepost/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/method/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/expression/DenyAllPermissionEvaluator.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/prepost/PostAuthorize.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/authority/mapping/MappableAttributesRetriever.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/context/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/AccountStatusUserDetailsChecker.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/ComparableVersion.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-

jar/org/springframework/security/access/expression/method/MethodSecurityExpressionOperations.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/token/TokenService.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/userdetails/memory/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/prepost/PreAuthorize.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/authority/mapping/SimpleAttributes2GrantedAuthoritiesMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/userdetails/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/jaas/event/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/vote/package-info.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/authority/GrantedAuthoritiesContainer.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/userdetails/AuthenticationUserDetailsService.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/prepost/PostFilter.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/provisioning/GroupManager.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/provisioning/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/jaas/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/util/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/jaas/memory/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/hierarchicalroles/package-info.java  
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/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/authority/mapping/MapBasedAttributes2GrantedAuthoritiesMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/package-info.java  
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jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java  
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jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java  
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jar/org/springframework/security/core/userdetails/UserDetailsChecker.java  
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/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/token/DefaultToken.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/intercept/aopalliance/package-info.java  
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jar/org/springframework/security/provisioning/UserDetailsManager.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/event/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/CredentialsContainer.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/token/Sha512DigestUtils.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/expression/ExpressionUtils.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyAuthoritiesMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/authority/mapping/NullAuthoritiesMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/expression/method/package-info.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/AuthenticationEventPublisher.java  
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/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/authority/mapping/Attributes2GrantedAuthoritiesMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/PermissionCacheOptimizer.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/intercept/aspectj/AspectJMethodSecurityInterceptor.java  
\*

/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/authority/mapping/GrantedAuthoritiesMapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/method/P.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/UserDetailsByNameServiceWrapper.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/provisioning/MutableUserDetails.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/intercept/aspectj/package-info.java  
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- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/converter/RsaKeyConverters.java
- \*
- /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/AuthorizationDecision.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/AuthorityAuthorizationDecision.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/AuthorityReactiveAuthorizationManager.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/AbstractExpressionAttributeRegistry.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/AbstractAuthorizationManagerRegistry.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/context/SecurityContextChangedEvent.java
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- /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/ExpressionAttribute.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/AuthorizationInterceptorsOrder.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/ExpressionAttributeAuthorizationDecision.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/context/SecurityContextChangedListener.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/scheduling/DelegatingSecurityContextTaskScheduler.java
- \* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/MethodInvocationResult.java

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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java

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jar/org/springframework/security/core/session/AbstractSessionEvent.java  
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jar/org/springframework/security/core/session/SessionIdChangedEvent.java  
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jar/org/springframework/security/authentication/DefaultAuthenticationEventPublisher.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authorization/AuthorizationManager.java  
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jar/org/springframework/security/authentication/ProviderManager.java  
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jar/org/springframework/security/core/session/SessionCreationEvent.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/session/SessionDestroyedEvent.java  
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jar/org/springframework/security/jackson2/UserDeserializer.java  
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/\*\*

- \* Reviews the `Object` returned from a secure object invocation, being able to
- \* modify the `Object` or throw an `{ @link AccessDeniedException }`.
- \* `<p>`
- \* Typically used to ensure the principal is permitted to access the domain object
- \* instance returned by a service layer bean.
- Can also be used to mutate the domain object
- \* instance so the principal is only able to access authorised bean properties or
- \* `<code>Collection</code>` elements.
- \* `<p>`
- \* Special consideration should be given to using an `<code>AfterInvocationManager</code>`
- \* on bean methods that modify a database. Typically an
- \* `<code>AfterInvocationManager</code>` is used with read-only methods, such as
- \* `<code>public DomainObject getById(id)</code>`. If used with methods that modify a
- \* database, a transaction manager should be used to ensure any
- \* `<code>AccessDeniedException</code>` will cause a rollback of the changes made by the
- \* transaction.
- \* `</p>`
- \*
- \* @author Ben Alex
- \* @see org.springframework.security.authorization.method.AuthorizationManagerBeforeMethodInterceptor
- \* @see org.springframework.security.authorization.method.AuthorizationManagerAfterMethodInterceptor
- \* @deprecated Use delegation with `{ @link AuthorizationManager }`

\*/

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Found in path(s):
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```
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/core/parameters/P.java
```

```
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-
jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
```

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/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/AuthenticatedPrincipal.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/SpringSecurityCoreVersion.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java  
\*

/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java

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Found in path(s):

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/CachingUserDetailsService.java  
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/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/jackson2/UnmodifiableListMixin.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-

jar/org/springframework/security/core/Transient.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java  
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```
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* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/util/FieldUtils.java  
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/opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationFailedEvent.java  
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* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/intercept/AbstractSecurityInterceptor.java  
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* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java  
* /opt/cola/permits/1875866140_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/UserDetailsService.java
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/intercept/NullRunAsManager.java  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/LockedException.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/session/SessionRegistry.java  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/userdetails/UserCache.java  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/core/context/SecurityContextImpl.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/SecurityMetadataSource.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java  
\*  
/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/intercept/RunAsManagerImpl.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/access/intercept/InterceptorStatusToken.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java  
\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-  
jar/org/springframework/security/authentication/InsufficientAuthenticationException.java  
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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/SecuredAuthorizationManager.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerAfterMethodInterceptor.java

\*

/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/ObservationReactiveAuthenticationManager.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerBeforeMethodInterceptor.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerAfterReactiveMethodInterceptor.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/ObservationAuthorizationManager.java

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/opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authentication/ObservationAuthenticationManager.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/core/authority/SimpleGrantedAuthority.java

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\*

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\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java

\* /opt/cola/permits/1875866140\_1703598000.504111/0/spring-security-core-6-2-1-sources-jar/org/springframework/security/authorization/method/PreFilterAuthorizationMethodInterceptor.java

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```
*/
```

```
/**
```

```
* Process the given { @link ConfigurableListableBeanFactory } instance
```

```
* ahead-of-time and return a contribution or { @code null }.
```

```
* <p>Processors are free to use any techniques they like to analyze the given
```

```
* bean factory. Most typically use reflection to find fields or methods to
```

```
* use in the
```

```
contribution. Contributions typically generate source code or
```

```
* resource files that can be used when the AOT optimized application runs.
```

```
* <p>If the given bean factory does not contain anything that is relevant to
```

```
* the processor, this method should return a { @code null } contribution.
```

```
* @param beanFactory the bean factory to process
* @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
*/
```

Found in path(s):

```
*/opt/cola/permits/1886516188_1705443863.1817546/0/spring-beans-6-1-3-sources-
jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotProcessor.java
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```
*/opt/cola/permits/1886516188_1705443863.1817546/0/spring-beans-6-1-3-sources-
jar/org/springframework/beans/factory/annotation/Qualifier.java
*/opt/cola/permits/1886516188_1705443863.1817546/0/spring-beans-6-1-3-sources-
jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
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```
/*
```

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- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/InitializingBean.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/Aware.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
- \*
- /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/InvalidPropertyException.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/ObjectProvider.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
- \*
- /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/BeanInstantiationException.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/DisposableBean.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/PropertyAccessorFactory.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
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- /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/PropertyValues.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/support/PagedListHolder.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/PropertyMatches.java

\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java  
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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/ObjectFactory.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/Mergeable.java  
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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/support/AutowiredCandidateQualifier.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/NotWritablePropertyException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java  
\*  
/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/PropertyAccessException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java  
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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java

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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java

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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/ConversionNotSupportedException.java

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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/support/SortDefinition.java

\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java

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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java

\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-



jar/org/springframework/beans/factory/xml/DocumentLoader.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/annotation/Configurable.java  
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jar/org/springframework/beans/PropertyEditorRegistrar.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java  
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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/xml/NamespaceHandler.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/BeanIsAbstractException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/BeanExpressionException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/parsing/EmptyReaderEventListener.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-  
jar/org/springframework/beans/factory/config/BeanReference.java  
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jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java  
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jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java  
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jar/org/springframework/beans/propertyeditors/InputSourceEditor.java  
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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/ParserContext.java  
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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java  
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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java  
\*  
/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-

jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java

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jar/org/springframework/beans/factory/annotation/Autowire.java

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jar/org/springframework/beans/factory/BeanNameAware.java

\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-

jar/org/springframework/beans/propertyeditors/ReaderEditor.java

\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-

jar/org/springframework/beans/propertyeditors/URLEditor.java

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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/NamedBean.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/NullValueInNestedPathException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/BeanInitializationException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java  
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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/Scope.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java

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/\*\*

\* Process the given { @link RegisteredBean } instance ahead-of-time and

\* return a contribution or { @code null }.

\* <p>

\* Processors are free to use any techniques they like to analyze the given

\* instance. Most typically use reflection to find fields or methods to use

\* in the contribution. Contributions

typically generate source code or

- \* resource files that can be used when the AOT optimized application runs.
- \* <p>
- \* If the given instance isn't relevant to the processor, it should return a
- \* { @code null } contribution.
- \* @param registeredBean the registered bean to process
- \* @return a { @link BeanRegistrationAotContribution } or { @code null }
- \*/

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- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
- \*
- \*/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/BeansException.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/BeanWrapper.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
- \* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java

\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java  
\*  
/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/FatalBeanException.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/parsing/Location.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/parsing/AliasDefinition.java  
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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java  
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\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/PatternEditor.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/BeanClassLoaderAware.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java  
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/opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/parsing/Problem.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java  
\* /opt/cola/permits/1886516188\_1705443863.1817546/0/spring-beans-6-1-3-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java

## 1.433 spring-expression 6.1.3

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\*  
/opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/ConstructorExecutor.java  
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* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/ConstructorReference.java
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/opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
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jar/org/springframework/expression/spel/ast/InlineMap.java
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jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
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jar/org/springframework/expression/TypeLocator.java
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* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
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jar/org/springframework/expression/spel/standard/SpelCompiler.java  
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jar/org/springframework/expression/spel/ast/Elvis.java  
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jar/org/springframework/expression/EvaluationContext.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/support/ReflectionHelper.java  
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jar/org/springframework/expression/spel/ast/FunctionReference.java  
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jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java  
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jar/org/springframework/expression/spel/ast/SpelNodeImpl.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/ExpressionState.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/ast/VariableReference.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/ast/Literal.java  
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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/ast/CompoundExpression.java  
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jar/org/springframework/expression/spel/ast/OpMultiply.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/standard/Token.java  
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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/ast/MethodReference.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/ParserContext.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-  
jar/org/springframework/expression/spel/standard/Tokenizer.java  
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/opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/TypedValue.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/ast/OpPlus.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/CodeFlow.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/ast/Indexer.java  
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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java

\*

/opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/ParseException.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/SpelParseException.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/OperatorOverloader.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/CompiledExpression.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/Expression.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/common/ExpressionUtils.java

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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/ConstructorResolver.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/standard/TokenKind.java  
\*  
/opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/EvaluationException.java  
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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/common/CompositeStringExpression.java  
\*  
/opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/SpelNode.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/support/BooleanTypedValue.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/common/LiteralExpression.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/Operation.java  
\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java

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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java

\*

/opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/ast/OpLT.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/ast/OpInc.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/TypeConverter.java

\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/BeanResolver.java

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\* /opt/cola/permits/1886516143\_1705443777.4656231/0/spring-expression-6-1-3-sources-jar/org/springframework/expression/spel/ast/OpGE.java

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*
/opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/MethodResolver.java
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jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/TypeComparator.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
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jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/ValueRef.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/PropertyAccessor.java
*
/opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/OpAnd.java
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jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
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jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
*
/opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/FloatLiteral.java
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jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/standard/SpelExpression.java
*
/opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/OperatorBetween.java
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jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
*
/opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1886516143_1705443777.4656231/0/spring-expression-6-1-3-sources-
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## 1.434 spring-aop 6.1.3

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jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/framework/adaptor/AdvisorAdapterRegistrationManager.java
*
/opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/framework/AopProxy.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
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\*  
/opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java  
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/opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java  
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java  
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/opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java  
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/AspectJAopUtils.java  
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jar/org/springframework/aop/framework/AdvisedSupportListener.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/RawTargetAccess.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/AfterAdvice.java  
\*  
/opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/BeforeAdvice.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/IntroductionInterceptor.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/framework/AopInfrastructureBean.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/SpringProxy.java  
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jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/aopalliance/intercept/Interceptor.java
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jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
*
/opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
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jar/org/aopalliance/intercept/MethodInvocation.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/aopalliance/aop/Advice.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java  
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jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java  
\*  
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java  
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java  
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jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java  
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jar/org/springframework/aop/config/AdvisorComponentDefinition.java

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- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java

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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java

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- \*
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- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/AopProxyFactory.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/config/PointcutComponentDefinition.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/IntroductionAdvisor.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
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- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/scope/DefaultScopedObject.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/target/PoolingConfig.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/scope/ScopedObject.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/IntroductionInfo.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/AopConfigException.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
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- /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/Pointcut.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
- \* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java

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* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
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jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
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* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
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\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/framework/adapt/AfterReturningAdviceInterceptor.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/framework/AopContext.java  
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/opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java  
\* /opt/cola/permits/1886516327\_1705443765.7160573/0/spring-aop-6-1-3-sources-  
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jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java  
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jar/org/springframework/aop/config/AspectComponentDefinition.java  
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jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/cola/permits/1886516327_1705443765.7160573/0/spring-aop-6-1-3-sources-
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jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
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jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java

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## 1.435 spring-web-mvc 6.1.3



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\*/  
/\*\*  
\* XSLT-driven View that allows for response context to be rendered as the  
\* result of an XSLT transformation.  
\*  
\* <p>The XSLT Source object is supplied as a parameter in the model and then  
\* { @link #locateSource detected } during response rendering. Users can either specify  
\* a specific entry in the  
\* model via the { @link #setSourceKey sourceKey } property or  
\* have Spring locate the Source object. This class also provides basic conversion  
\* of objects into Source implementations. See { @link #getSourceTypes() here }  
\* for more details.  
\*  
\* <p>All model parameters are passed to the XSLT Transformer as parameters.  
\* In addition the user can configure { @link #setOutputProperties output properties }  
\* to be passed to the Transformer.  
\*  
\* @author Rob Harrop  
\* @author Juergen Hoeller  
\* @since 2.0  
\*/

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\* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java  
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*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
* protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via { @link RequestContext#getRequestDataValueProcessor() }.
*
* @author Rossen Stoyanchev
* @since 3.1
*/
```

Found in path(s):

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* /opt/cola/permits/1886516066_1705443748.0604925/0/spring-webmvc-6-1-3-sources-
jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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- \* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java

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- \* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java

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- \* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/resource/ResourceTransformer.java
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/opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java

- \* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java

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- \* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/view/InternalResourceView.java
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- \* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java
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jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java  
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\* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java  
\* /opt/cola/permits/1886516066\_1705443748.0604925/0/spring-webmvc-6-1-3-sources-jar/org/springframework/web/servlet/support/BindStatus.java  
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## xwd v1.0.7

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|----------------|--------------------|----------------|
| Main Mesa code | src/mesa/          | MIT            |
| Device drivers | src/mesa/drivers/* | MIT, generally |
| Gallium code   | src/gallium/       | MIT            |
| Ext headers    | GL/gltext.h        | Khronos        |
|                | GL/gltext.h        | Khronos        |
|                | GL/wgltext.h       | Khronos        |
|                | KHR/khrplatform.h  | Khronos        |

\*\*\*\*\*

----  
include/GL/gl.h :

Mesa 3-D  
graphics library

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```
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include/GL/glxt.h  
include/GL/wglxt.h :
```

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- \* /opt/cola/permits/1892444877\_1706076946.7529168/0/asm-9-6-sources-3-jar/org/objectweb/asm/package.html

## 1.441 bcel 6.8.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c



and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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```
* /opt/cola/permits/1893966511_1706210869.1618128/0/slf4j-jcl-1-7-30-sources-2-
jar/org/slf4j/impl/JCLLoggerFactory.java
* /opt/cola/permits/1893966511_1706210869.1618128/0/slf4j-jcl-1-7-30-sources-2-
jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1893966511_1706210869.1618128/0/slf4j-jcl-1-7-30-sources-2-
jar/org/slf4j/impl/JCLLoggerAdapter.java
* /opt/cola/permits/1893966511_1706210869.1618128/0/slf4j-jcl-1-7-30-sources-2-
jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1893966511_1706210869.1618128/0/slf4j-jcl-1-7-30-sources-2-
jar/org/slf4j/impl/StaticMarkerBinder.java
```

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jar/org/slf4j/migrator/InplaceFileConverter.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/ConversionException.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/Constant.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/RuleSetFactory.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/LineConverter.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/SingleConversionRule.java
*
/opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/ConversionRule.java
```

```
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/Main.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/MultiGroupConversionRule.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/Log4jRuleSet.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/ProjectConverter.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/RuleSet.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/JCLRuleSet.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/JULRuleSet.java
*
/opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/helper/Abbreviator.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/internal/MigratorFrame.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/FileSelector.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/internal/ConversionTask.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/helper/SpringLayoutHelper.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/internal/ProgressListenerImpl.java
* /opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/internal/ProgressListener.java
*
/opt/cola/permits/1893966633_1706210826.6205087/0/slf4j-migrator-1-7-30-sources-2-
jar/org/slf4j/migrator/line/EmptyRuleSet.java
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\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/helpers/Util.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/helpers/BasicMDCAdapter.java  
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\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/helpers/MarkerIgnoringBase.java  
\*  
/opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/helpers/NOPLogger.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/impl/StaticMarkerBinder.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/MarkerFactory.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/impl/StaticLoggerBinder.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/spi/MDCAdapter.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/ILoggerFactory.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/MDC.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/spi/MarkerFactoryBinder.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/LoggerFactory.java  
\*  
/opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/helpers/MessageFormatter.java  
\* /opt/cola/permits/1893966379\_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/spi/LoggerFactoryBinder.java

```

* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/NamedLoggerBase.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/SubstituteLogger.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/Marker.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-jar/org/slf4j/Logger.java
*
/opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/1893966379_1706210821.002549/0/slf4j-api-1-7-30-sources-3-
jar/org/slf4j/helpers/NOPMDCAadapter.java

```

## 1.460 slf4j-nop 1.7.30

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Found in path(s):

\* /opt/cola/permits/1893966487\_1706210828.9941986/0/slf4j-nop-1-7-30-sources-3-jar/org/slf4j/impl/StaticLoggerBinder.java

\* /opt/cola/permits/1893966487\_1706210828.9941986/0/slf4j-nop-1-7-30-sources-3-jar/org/slf4j/impl/StaticMDCBinder.java

\* /opt/cola/permits/1893966487\_1706210828.9941986/0/slf4j-nop-1-7-30-sources-3-jar/org/slf4j/impl/StaticMarkerBinder.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/Logger.java
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/helpers/NOPLoggerFactory.java
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/MarkerFactory.java
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/MDC.java
* /opt/cola/permits/1893966394_1706210841.8195024/0/slf4j-api-1-7-30-sources-
zip/org/slf4j/helpers/NOPMDCAdapter.java
```

\*  
/opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/impl/StaticMDCBinder.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/LoggerFactory.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/BasicMarkerFactory.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/SubstituteLogger.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/BasicMarker.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/spi/MDCAdapter.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/Marker.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/MarkerIgnoringBase.java  
\*  
/opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/MessageFormatter.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/impl/StaticMarkerBinder.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/NamedLoggerBase.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/IMarkerFactory.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/spi/LoggerFactoryBinder.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/ILoggerFactory.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/FormattingTuple.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
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\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
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\*  
/opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
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\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/SubstituteLoggerFactory.java  
\* /opt/cola/permits/1893966394\_1706210841.8195024/0/slf4j-api-1-7-30-sources-  
zip/org/slf4j/helpers/Util.java

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# 1.467 fluent-hc 4.5.13

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* /opt/cola/permits/1893966495_1706210837.2466507/0/log4j-over-slf4j-1-7-30-sources-4-  
jar/org/apache/log4j/WriterAppender.java  
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\* /opt/cola/permits/1893966495\_1706210837.2466507/0/log4j-over-slf4j-1-7-30-sources-4-jar/org/apache/log4j/BasicConfigurator.java  
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\*  
/opt/cola/permits/1893966495\_1706210837.2466507/0/log4j-over-slf4j-1-7-30-sources-4-jar/org/apache/log4j/RollingFileAppender.java  
\* /opt/cola/permits/1893966495\_1706210837.2466507/0/log4j-over-slf4j-1-7-30-sources-4-jar/org/apache/log4j/AppenderSkeleton.java

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\* /opt/cola/permits/1893966495\_1706210837.2466507/0/log4j-over-slf4j-1-7-30-sources-4-jar/org/apache/log4j/helpers/NullEnumeration.java

# 1.471 log4j-jcl 2.17.1

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# 1.472 httpcomponents-core 4.4.14-1

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jar/org/slf4j/bridge/SLF4JBridgeHandler.java
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## 1.476 libslf4j-java 1.7.30-1

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## 1.477 slf4j-jdk14 1.7.30

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\* /opt/cola/permits/1893966461\_1706210889.0508702/0/slf4j-jdk14-1-7-30-sources-3-jar/org/slf4j/impl/StaticMarkerBinder.java  
 \* /opt/cola/permits/1893966461\_1706210889.0508702/0/slf4j-jdk14-1-7-30-sources-3-jar/org/slf4j/impl/JDK14LoggerFactory.java  
 \* /opt/cola/permits/1893966461\_1706210889.0508702/0/slf4j-jdk14-1-7-30-sources-3-jar/org/slf4j/impl/StaticMDCBinder.java  
 \* /opt/cola/permits/1893966461\_1706210889.0508702/0/slf4j-jdk14-1-7-30-sources-3-jar/org/slf4j/impl/JDK14LoggerAdapter.java  
 \* /opt/cola/permits/1893966461\_1706210889.0508702/0/slf4j-jdk14-1-7-30-sources-3-jar/org/slf4j/impl/StaticLoggerBinder.java

## 1.478 zlib 1.2.0.4

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
 version 1.2.0.4, August 10th, 2003

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/zlib.h

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\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/iostream2/zstream.h

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```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2003 Jean-loup Gailly.
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*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/zutil.h
```

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```
/* puff.h
```

```
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version 1.7, 3 Mar 2002
```

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```
Mark Adler madler@alumni.caltech.edu
```

```
*/
```

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```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/puff/puff.h
```

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```
/* inffast.c -- fast decoding
```

```
* Copyright (C) 1995-2003 Mark Adler
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*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inffast.c
```

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```
/* inflate.h -- internal inflate state definition
```

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- \*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inflate.h

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## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://www.zlib.org> which may have more recent information.

The latest zlib FAQ is at [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. If you want a precompiled DLL, see <http://www.winimage.com/zLibDll/>. Questions about the zlib DLL should be sent to Gilles Vollant ([info@winimage.com](mailto:info@winimage.com)).

### 3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://www.winimage.com/zLibDll/>
- \* <http://www.dogma.net/markn/articles/zlibtool/zlibtool.htm>
- \* contrib/visual-basic.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR

Make sure that before the call of compress, the length of the compressed buffer

is equal to the total size of the compressed buffer and not

zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

### 5. deflate() or inflate() returns Z\_BUF\_ERROR

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input.

Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR

may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h` for the moment, and Francis S. Lin has converted it to a web page `zlib.html`. Volunteers to transform this to Unix-style man pages, please contact Jean-loup Gailly ([jloup@gzip.org](mailto:jloup@gzip.org)). Examples of zlib usage are in the files `example.c` and `minigzip.c`.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org). Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the directories `contrib/delphi` and `contrib/delphi2` in the zlib distribution.

11. Can zlib handle .zip archives?

See the directory `contrib/minizip` in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt the code of `uncompress` on your own.

13. How can I make a Unix shared library?

```
make clean
./configure -s
make
```

14. How do I install a shared zlib library on Unix?

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it.

15. I have a question about OttoPDF

We are not the authors of OttoPDF. The real author is on the OttoPDF web site Joel Hainley [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

17. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

18. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

Note that you cannot specify special gzip header contents (e.g. a file name or modification date), nor will inflate tell you what was in the gzip header. If you need to customize the header or see what's in it, you can use the raw deflate and inflate operations and the `crc32()` function and roll your own gzip encoding and decoding. Read the gzip RFC 1952 for details of the header and trailer format.



19. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz\* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's Init functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

20.

Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

21. Is zlib under the GNU license?

No. Please read the license in zlib.h.

22. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

23. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

24. Will zlib work on a 64-bit machine?

It should. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

25. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

26. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression.

27. Does zlib work on MVS, OS/390, CICS, etc.?

We don't know for sure. We have heard occasional reports of success on these systems. If you do use it on one of these, please provide us with a report, instructions, and patches that we can reference when we get these questions. Thanks.

28. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

29. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

30. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks

of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB.

`compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

### 31. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of a 4K string space, other than the caller of `gzprintf()` assuring that the output will not exceed 4K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will

be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability.

### 32. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://www.zlib.org/>

### 33. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pendantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler

in the universe. It just got to be a waste of time, and some compilers were downright silly. So now, we simply make sure that the code always works.

34. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

35. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use gpg ( <http://www.gnupg.org/> ) which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

36. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

37. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

38. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/FAQ

No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2003 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/trees.c
```

No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2003 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inftrees.h
```

No license file was found, but licenses were detected in source scan.

```
/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2003 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/zconf.in.h
```

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/zconf.h
```

No license file was found, but licenses were detected in source scan.

```
/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2002 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/compress.c
```

No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/uncompr.c
```

No license file was found, but licenses were detected in source scan.

/\*

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

/\* inflate.c -- inflate using a call-back interface

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inflate.c

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/example.c

No license file was found, but licenses were detected in source scan.

These classes provide a C++ stream interface to the zlib library. It allows you to do things like:

```
gzofstream outf("blah.gz");
outf << "These go into the gzip file " << 123 << endl;
```

It does this by deriving a specialized stream buffer for gzipped files, which is the way Stroustrup would have done it. :->

The gzifstream and gzofstream classes were originally written by Kevin Ruland and made available in the zlib contrib/iostream directory. The older version still compiles under gcc 2.xx, but not under gcc 3.xx, which sparked the development of this version.

The new classes are as standard-compliant as possible, closely following the approach of the standard library's fstream classes. It compiles under gcc versions 3.2 and 3.3, but not under gcc 2.xx. This is mainly due to changes in the standard

library naming scheme. The new version of gzifstream/gzofstream/gzfilebuf differs from the previous one in the

following respects:

- added showmanyc
- added setbuf, with support for unbuffered output via setbuf(0,0)
- a few bug fixes of stream behavior
- gzipped output file opened with default compression level instead of maximum level
- setcompressionlevel()/strategy() members replaced by single setcompression()

The code is provided "as is", with the permission to use, copy, modify, distribute and sell it for any purpose without fee.

Ludwig Schwardt

<schwardt@sun.ac.za>

DSP Lab

Electrical & Electronic Engineering Department

University of Stellenbosch

South Africa

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/iostream3/README

No license file was found, but licenses were detected in source scan.

/\* blast.c

\* Copyright (C) 2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in blast.h

\* version 1.1, 16 Feb 2003

\*

\* blast.c decompresses data compressed by the PKWare Compression Library.

\* This function provides functionality similar to the explode() function of

\* the PKWare library, hence the name "blast".

\*

\* This decompressor is based on the excellent format description provided by

\* Ben Rudiak-Gould in comp.compression on August 13, 2001. Interestingly, the

\* example Ben provided in the post is incorrect. The distance 110001 should

\* instead be 111000. When corrected, the example byte stream becomes:

\*

\* 00 04 82 24 25 8f 80 7f

\*

\* which decompresses to "AIAIAIAIAIAIA" (without the quotes).

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/blast/blast.c

No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO for compress .zip files using zlib

Version 0.22, May 19th, 2003

Copyright (C) 1998-2003 Gilles Vollant

This unzip package allow creates .ZIP file, compatible with PKZip 2.04g  
WinZip, InfoZip tools and compatible.  
Encryption and multi volume ZipFile (span) are not supported.  
Old compressions used by old PKZip 1.x are not supported

For uncompress .zip file, look at unzip.h

I WAIT FEEDBACK at mail [info@winimage.com](mailto:info@winimage.com)  
Visit also <http://www.winimage.com/zLibDll/unzip.html> for evolution

Condition of use and distribution are the same than zlib :

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2. Altered source versions must be plainly marked as such, and must not be  
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/minizip/zip.h  
No license file was found, but licenses were detected in source scan.

/\* minizip.c -- simulate gzip using the zlib compression library  
\* Copyright (C) 1995-2002 Jean-loup Gailly.  
\* Adapted for Z\_RLE by Cosmin Truta, 2003.  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):



\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/minigzip.c

No license file was found, but licenses were detected in source scan.

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inftrees.c

No license file was found, but licenses were detected in source scan.

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/deflate.c

No license file was found, but licenses were detected in source scan.

/\* inffast.h -- header to use inffast.c

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inffast.h

No license file was found, but licenses were detected in source scan.

/\* inffas86.c is a hand tuned assembler version of

\*

\* inffast.c -- fast decoding

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Copyright (C) 2003 Chris Anderson <christop@charm.net>

\* Please use the copyright conditions above.

\*

\* Mar-13-2003 -- Most of this is derived from inffast.S which is derived from

\* the gcc -S output of zlib-1.2.0/inffast.c. Zlib-1.2.0 is in beta release at

\* the moment. I have successfully compiled and tested this code with gcc2.96,

\* gcc3.2, icc5.0, msvc6.0. It is very close to the speed of inffast.S

\* compiled with gcc -DNO\_MMX, but inffast.S is still faster on the P3 with MMX

\* enabled. I will attempt to merge the MMX code into this version. Newer

\* versions of this and inffast.S can be found at

\* <http://www.eetbeetee.com/zlib/> and <http://www.charm.net/~christop/zlib/>

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/inflate86/inffas86.c

No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 0.22, May 19th, 2003

Copyright (C) 1998-2003 Gilles Vollant

This unzip package allow extract file from .ZIP file, compatible with PKZip 2.04g

WinZip, InfoZip tools and compatible.

Encryption and multi volume ZipFile (span) are not supported.

Old compressions used by old PKZip 1.x are not supported

I WAIT FEEDBACK at mail [info@winimage.com](mailto:info@winimage.com)

Visit also <http://www.winimage.com/zLibDll/unzip.htm> for evolution

Condition of use and distribution are the same than zlib :

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3. This notice may not be removed or altered from any source distribution.

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

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<li> Altered source versions must be plainly marked as such, and must not be

<li> This notice may not be removed or altered from any source distribution.

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/old/zlib.html

No license file was found, but licenses were detected in source scan.

```
/* inflate.c -- zlib decompression
```

```
* Copyright (C) 1995-2003 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/inflate.c

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* puff.c
```

```
* Copyright (C) 2002, 2003 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in puff.h
```

```
* version 1.7, 3 Mar 2003
```

```
*
```

```
* puff.c is a simple inflate written to be an unambiguous way to specify the
```

```
* deflate format. It is not written for speed but rather simplicity. As a
```

```
* side benefit, this code might actually be useful when small code is more
```

```
* important than speed, such as bootstrap applications. For typical deflate
```

```
* data, zlib's inflate() is about four times as fast as puff(). zlib's
```

```
* inflate compiles to around 20K on my machine, whereas puff.c compiles to
```

```
* around 4K on my machine (a PowerPC using GNU cc). If the faster decode()
```

```
* function here is used, then puff() is only twice as slow as zlib's
```

```
* inflate().
```

```
*
```

```
* All dynamically allocated memory comes from the stack. The stack required
```

```
* is less than 2K bytes. This code is compatible with 16-bit int's and
```

```
* assumes that long's are at least 32 bits. puff.c uses the short data type,
```

```
* assumed to be 16 bits, for arrays in order to conserve memory. The code
```

```
* works whether integers are stored big endian or little endian.
```

```
*
```

```
* In the comments below are "Format notes" that describe the inflate process
```

```
* and document some of the less obvious aspects of the format. This source
```

```
* code is meant to supplement RFC 1951, which formally describes the deflate
```

```
* format:
```

```
*
```

```
* http://www.zlib.org/rfc-deflate.html
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/puff/puff.c

No license file was found, but licenses were detected in source scan.

```
/* blast.h -- interface for blast.c
Copyright (C) 2003 Mark Adler
version 1.1, 16 Feb 2003
```

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/blast/blast.h
```

No license file was found, but licenses were detected in source scan.

```
::: This is free software; you can redistribute it and/or modify it
::: under the terms of the GNU General Public License.
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/vstudio/vc70_32/gvmat32.asm
```

No license file was found, but licenses were detected in source scan.

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
```

```
* Copyright (C) 1995-2003 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1895428472_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/adler32.c
```

No license file was found, but licenses were detected in source scan.

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.0.4 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs

(Request for Comments) 1950 to 1952 in the files  
<http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format)  
and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format). These documents are also available in other  
formats from <ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html>

All functions of the compression library are documented in the file `zlib.h`  
(volunteer to write man pages welcome, contact [jloup@gzip.org](mailto:jloup@gzip.org)). A usage example  
of the library is given in the file `example.c` which also tests that the library  
is working correctly. Another example is given in the file `minigzip.c`. The  
compression library itself is composed of all source files except `example.c` and  
`minigzip.c`.

To compile all files and run the test program, follow the instructions  
given at  
the top of Makefile. In short "make test; make install" should work for most  
machines. For Unix: `./configure; make test; make install` For MSDOS, use one  
of the special makefiles such as `Makefile.msc`. For VMS, use `Make_vms.com` or  
`descrip.mms`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant  
[<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is  
<http://www.zlib.org> or <http://www.gzip.org/zlib/> Before reporting a problem,  
please check this site to verify that you have the latest version of zlib;  
otherwise get the latest version and check whether the problem still exists or  
not.

PLEASE read the zlib FAQ [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html) before asking  
for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997  
issue of Dr. Dobb's Journal; a copy of the article is available in  
<http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.2.0.4 are documented in the file `ChangeLog`.

Unsupported  
third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit  
<http://www.javasoft.com/products/JDK/1.1/docs/api/Package-java.util.zip.html>  
See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is in the  
CPAN (Comprehensive Perl Archive Network) sites  
<http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling [<amk@magnet.com>](mailto:amk@magnet.com) is  
available in Python 1.5 and later versions, see

<http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at <http://www.westend.com/~kupries/doc/trf/man/man.html>

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available at <http://www.winimage.com/zLibDll/unzip.html> and also in the contrib/minizip directory of zlib.

Notes for some targets:

- To build a Windows DLL version, include in a DLL project `zlib.def`, `zlib.rc` and all `.c` files except `example.c` and `minigzip.c`; compile with `-DZLIB_DLL` The zlib DLL support was initially done by Alessandro Iacopetti and is now maintained by Gilles Vollant <info@winimage.com>. Check the zlib DLL home page at <http://www.winimage.com/zLibDll>

From Visual Basic, you can call the DLL functions which do not take a structure as argument: `compress`, `uncompress` and all `gz*` functions. See `contrib/visual-basic.txt` for more information, or get <http://www.tcfb.com/dowseware/cmp-z-it.zip>

- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32` compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with `gcc 2.6.3` on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with `cc`.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the `cc` option `-std1` is necessary to get `gzprintf` working correctly. This is done by `configure`.

- zlib doesn't work on HP-UX 9.05 with some versions of `/bin/cc`. It works with other compilers. Use "make test" to check your compiler.

- `gzdopen` is not supported on RISCOS, BEOS and by some Mac compilers.

- For Turbo C the small model is supported only with reduced performance to avoid any far allocation; it was tested with `-DMAX_WBITS=11 -DMAX_MEM_LEVEL=3`

- For PalmOs, see <http://www.cs.uit.no/~perm/PASTA/pilot/software.html> Per Harald Myrvang <perm@stud.cs.uit.no>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/README  
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Frequently Asked Questions about ZLIB.DLL

This FAQ is about the design, the rationale, and the use of ZLIB.DLL. If you have general questions about zlib, you should check the file "FAQ" found in the zlib distribution, or at the location [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

1. Why am I having problems using ZLIB.DLL? My application works with the static build of zlib just fine, and I didn't make any modification when recompiling it for ZLIB.DLL.

- Make sure you define ZLIB\_DLL before including "zlib.h". Applications that link to ZLIB.DLL will work properly if the source files are compiled in this (or in a compatible) way, and the executables are linked to MSVCRT.DLL.

2. Why do I have to do this? When I use other libraries, I can link my code to their static or dynamic versions, without needing any source code modification or recompilation.

- In order to preserve the backwards compatibility with the older versions of ZLIB.DLL, and give the ability to use zlib to the non-C programmers at the same time, we had to do this compromise.

3. What exactly is this mess about, and why is it happening?

- It's about the calling convention used for the zlib functions. If linked in statically, zlib uses the C (CDECL) convention. If linked in dynamically (via ZLIB.DLL), it uses the STDCALL convention. The ZLIB\_DLL macro switches on the use of STDCALL.

It happens because we need to preserve compatibility with the old releases of ZLIB.DLL that use STDCALL, and, at the same time, we must provide support for programmers who use other programming languages with bindings that require CDECL.

4. Why not use the STDCALL convention all the time?

It's the standard convention in Win32, and I need it in my Visual Basic project!

- Most of the Win32 API functions (without varargs) use indeed the STDCALL (WINAPI) convention,



but the standard C functions

use the default CDECL. If one calls Win32 functions such as CreateFile(), sometimes it makes sense to decorate one's own functions with STDCALL. But if one is aiming at ANSI C or POSIX portability, and calls functions such as fopen(), it is not a sound decision to include <windows.h> or to use non-ANSI constructs only to make one's functions STDCALL-able. This is not the biggest problem, however.

Technically, STDCALL is not bad; it is even a little faster than CDECL. The problem of using STDCALL is actually a problem of using any explicit calling convention. FASTCALL falls into the same category.

Explicit specification of calling conventions, whether it's direct or indirect via a macro, happens commonly in Windows, but it is regarded as a noisy, non-standard C quirk on other platforms. It isn't possible to write an ANSI C -conforming program, for example, if it is necessary to specify calling conventions. Libraries can hide the dirty stuff in header files, under macros, but callbacks will still remain exposed. This is why the zlib callbacks will not be decorated. (The old Windows callbacks, such as WndProc, are decorated, but the newer ones are not.)

There is one more problem with explicit, non-default calling conventions: the ability to use zlib in other programming languages. Some of them, like Ada (GNAT) and Fortran (GNU G77) have C bindings implemented initially on Unix, hence relying on the C calling convention.

So we are decorating the functions using STDCALL in ZLIB.DLL to maintain compatibility with the old versions, but we are using the default CDECL in the static library, to allow other programming languages to use zlib in a portable fashion, via C bindings.

#### 5. Why not use the default (CDECL) convention all the time?

It's the standard convention in C, and I need it in my Ada project!

-

Originally, ZLIB.DLL was intended to run under Visual Basic, and VB6 and earlier need STDCALL.

We admit that cluttering the main zlib sources, for the sake of interfacing with Visual Basic and at the expense of other

programming languages, is not fair. It would have been better to maintain a "VB-only" project in the contrib/ directory, and to build a custom ZLIBVB.DLL, for example -- as we did with the Delphi projects. Another possible solution would have been to build STDCALL wrappers around the CDECL-exported functions.

But this was the accident that we have to live with, in order to maintain binary compatibility with the older versions of ZLIB.DLL.

6. If my application uses ZLIB.DLL, do I have to link it to MSVCRT.DLL? Why?

- The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling any standard C function), must link to the same library. There

are several libraries in the Win32 system:

CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc.

Since ZLIB.DLL is linked to MSVCRT.DLL, the executables that depend on it must also link to MSVCRT.DLL.

7. Why are you saying that ZLIB.DLL and my application must be linked to the same C run-time library (CRT)? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a library invokes only pure Win32 API (i.e. accessible via <windows.h>), its DLL build will work in any context. But if a library invokes standard C functions, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are multiple versions of the C library that are all at the same time in the system, and all of

them have internal states,

therefore it is dangerous to intermix them with each other.

Intermixing multiple C libraries is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base article Q140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" enumerates some of the potential problems raised by intermixing, but does not offer a complete description of how

to avoid them, except by advising not to mix the C libraries.  
If you can send us more information about this issue, we will highly appreciate it. (But please do NOT send us source code from Microsoft, even if it comes with your legitimate copy of Visual C++!)

If this kind of intermixing works for you, it's because your application and DLLs are avoiding the corruption of the CRT's internal states, due to a fortunate accident. It's not because those libraries really work together.

Also note that linking ZLIB.DLL to non-Microsoft C libraries

(such as Borland's) raises similar problems.

#### 8. Why are you linking ZLIB.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. The number of Windows 95 installations is rapidly decreasing, Microsoft stopped supporting it a long time ago, and many recent applications from various vendors including Microsoft, do not even run on it. Even without these arguments, no serious user should run Windows 95 without a proper update installed.

There is also the fact that the mainstream C compilers for Windows are Microsoft Visual C++ 6.0, and gcc/MinGW. Both are producing executables that link to MSVCRT.DLL by default, without offering other dynamic CRTs as alternatives easy to select by users.

#### 9. Why are you not linking ZLIB.DLL to <<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:

\* Linking ZLIB.DLL to a static C library (LIBC.LIB, or LIBCMT.LIB) is not a good option. People are using ZLIB.DLL

mainly to save disk space. If you are linking your program to a static C library, you may as well consider linking zlib in statically, too.

\* Linking ZLIB.DLL to CRTDLL.DLL looks very appealing, because CRTDLL.DLL is present on every Win32 installation. Unfortunately, it has a series of problems: it raises difficulties when linking to the Microsoft C++ libraries, it is not thread-safe, and Microsoft has discontinued its support a long time ago.

\* Linking ZLIB.DLL to MSVCRT70.DLL, supplied with the

Microsoft .NET platform and Visual C++ 7.0, is not a good option. Although it can be downloaded and distributed freely, it is hardly present on today's Win32 installations. If it will become more popular than MSVCRT.DLL, and will be pre-installed on the future Win32 systems, we will probably think again about it.

\* Linking ZLIB.DLL to NTDLL.DLL is not possible. NTDLL.DLL exports only a part of the C library, and only on Windows NT systems.

10. I understand your reasons. However, my project needs ZLIB.DLL linked to something different than MSVCRT.DLL. What can I do?

Feel free to rebuild this DLL from the zlib sources, and link it the way you want. It is required, however, to clearly state that your build is unofficial. Another thing that is not required, but highly recommended, is to name that custom DLL differently, and/or to install it in a private directory that can be accessed by your application, but is not visible to the others (e.g. it's not the SYSTEM or the SYSTEM32 directory, and it's not in the PATH). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to their runtime CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

11. My I include additional pieces of code that I find useful, link them in ZLIB.DLL, and export them?

No. A legitimate build of ZLIB.DLL must not include code that does not originate from the official zlib sources. But you can

make your own private build, and give it a different name, as suggested in the previous answer.

For example, in Borland Delphi and C++ Builder, zlib is part of the standard VCL library. If an application links to VCL dynamically, the name of the distributable binary (VCLxx.DLL) does not possess any danger of clashing with a legitimate but incompatible ZLIB.DLL.

12. I see that I may have all kinds of problems if I use ZLIB.DLL.

Do you recommend to link zlib in statically? Do I get rid of problems?

- Yes, definitely. In fact, unless you are distributing a large number of executables, each of them linking to zlib, you will save space by linking zlib in statically (assuming that you would otherwise distribute ZLIB.DLL with your application). zlib is not a big library, and the space saved by ZLIB.DLL is little. Much of the actual size of the DLL is due to the 4KB alignment in the binary.

But you may have reasons, other than size, to use the DLL. That is entirely up to you.

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/zlib\_dll\_FAQ.txt

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Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/win32/Makefile.gcc

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/untgz/makefile.w32

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/old/nt/Makefile.emx

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/Makefile

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/old/msdos/Makefile.dj2

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/old/os2/Makefile.os2

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/old/msdos/Makefile.emx

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/old/nt/Makefile.gcc

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/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/zutil.c

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/\* gzio.c -- IO on .gz files

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\*

\* Compile this file with -DNO\_DEFLATE to avoid the compression code.

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/gzio.c

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/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2002 Jean-loup Gailly

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\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/deflate.h

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Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/inflate86/inffast.S

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Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/asm686/match.S

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/contrib/asm586/match.S

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/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results about a 50%

\* increase in speed on a Power PC using gcc -O3.

\*/

Found in path(s):

\* /opt/cola/permits/1895428472\_1706416694.6819348/0/zlib-1-2-0-4-zip/zlib-1.2.0.4/crc32.c

# 1.479 pytest 8.0.0

## 1.479.1 Available under license :

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# 1.480 libjpeg 9c

## 1.480.1 Available under license :

(extracted from src/README)

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## 1.481 libgit2 1.7.1

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Version 2.1, February 1999

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## THE BASIC LIBRARY FUNCTIONS

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# 1.483 pierrec-lz4 2.4.1+incompatible

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# 1.485 ssm 2.19.14

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# 1.486 jna 5.14.0

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from the 'org.apache.commons' to the 'clover.org.apache.commons'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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Maven Ant Tasks

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Version: 21.12  
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Home-page: UNKNOWN  
Author: UNKNOWN  
Author-email: UNKNOWN  
License: Apache Software License  
Platform: UNKNOWN

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Found in path(s):

\* /opt/cola/permits/1897583031\_1706639321.315193/0/example-21-12-dist-info-  
zip/inputdir/packages\_extracted/wheel/127/example-21.12.dist-info/METADATA

## 1.489 distro 1.8.0

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* WWW: http://openbluesky.kenai.com
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```

\*\*\*\*\*  
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Found in path(s):

- \* /opt/cola/permits/1897596079\_1706641519.4111495/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/NodesExample2.java
- \* /opt/cola/permits/1897596079\_1706641519.4111495/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/HiddenFilesInItalicsDecorator.java
- \* /opt/cola/permits/1897596079\_1706641519.4111495/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/GenericTreePanel2.java
- \* /opt/cola/permits/1897596079\_1706641519.4111495/0/it-tidalwave-netbeans-examples-nodes-example2-1-0-0-sources-1-jar/it/tidalwave/netbeans/examples/nodes/example2/view/HiddenFilesInItalicsDisplayable.java

# 1.491 cryptography 42.0.2

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

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*
/opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/reactive/TransactionContextHolder.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
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jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
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jar/org/springframework/transaction/TransactionManager.java
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jar/org/springframework/transaction/annotation/Propagation.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
*
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/opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
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jar/org/springframework/transaction/StaticTransactionDefinition.java
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jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java  
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\* /opt/cola/permits/1900765317\_1706924571.804818/0/spring-tx-6-1-3-sources-jar/org/springframework/dao/NonTransientDataAccessResourceException.java

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jar/org/springframework/dao/DataRetrievalFailureException.java
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jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
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* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/dao/DataAccessResourceFailureException.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
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* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/dao/UncategorizedDataAccessException.java
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/opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/dao/NonTransientDataAccessException.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/dao/TransientDataAccessException.java
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jar/org/springframework/dao/DeadlockLoserDataAccessException.java  
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jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java  
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jar/org/springframework/dao/CannotAcquireLockException.java

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jar/org/springframework/dao/PessimisticLockingFailureException.java

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*/
```

Found in path(s):

```
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/support/SimpleTransactionScope.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
*
/opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-
```

jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java  
\* /opt/cola/permits/1900765317\_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java  
\* /opt/cola/permits/1900765317\_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/interceptor/TransactionInterceptor.java  
No license file was found, but licenses were detected in source scan.

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```

Found in path(s):

```
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/support/ResourceTransactionDefinition.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java  
*  
/opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/InvalidTimeoutException.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/dao/support/DaoSupport.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/jta/JtaTransactionObject.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/support/ResourceHolderSupport.java  
*  
/opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/support/SimpleTransactionStatus.java  
* /opt/cola/permits/1900765317_1706924571.804818/0/spring-tx-6-1-3-sources-  
jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
```

\* /opt/cola/permits/1900765317\_1706924571.804818/0/spring-tx-6-1-3-sources-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java

# 1.498 python-pip 24.0

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes

the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 3.0            | 2.6          | 2008      | PSF        | yes                 |
| 3.0.1          | 3.0          | 2009      | PSF        | yes                 |
| 3.1            | 3.0.1        | 2009      | PSF        | yes                 |
| 3.1.1          | 3.1          | 2009      | PSF        | yes                 |
| 3.1.2          | 3.1          | 2010      | PSF        | yes                 |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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    "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note><p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
    "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
    "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
    "ListIdentityProviders":
      "<p>Lists the identity providers for user-based subscriptions.</p>",
    "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
    "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
    "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
    "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",

```

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    "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p>
    <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for
    billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For
    more information, see <a
    href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly
    charges</a> in the <i>Amazon Web
    Services Billing User Guide</i>.</p> </note>",
    "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
    "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered
    identity provider.</p>"
  },
  "shapes": {
    "AccessDeniedException": {
      "base": "<p>You don't have sufficient access to perform this action.</p>",
      "refs": {
      }
    },
    "ActiveDirectoryIdentityProvider": {
      "base": "<p>Details about an Active Directory identity provider.</p>",
      "refs": {
        "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity
        provider.</p>"
      }
    },
    "AssociateUserRequest": {
      "base": null,
      "refs": {
      }
    },
    "AssociateUserResponse": {
      "base": null,
      "refs": {
      }
    },
    "BoxInteger": {
      "base": null,
      "refs": {
        "ListIdentityProvidersRequest$MaxResults":
        "<p>Maximum number of results to return in a single call.</p>",
        "ListInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
        "ListProductSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single
        call.</p>",
        "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
      }
    },
    "ConflictException": {
      "base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
      "refs": {
    }
  }
}

```

```

    }
  },
  "DeregisterIdentityProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterIdentityProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "DisassociateUserRequest": {
    "base": null,
    "refs": {
    }
  },
  "DisassociateUserResponse": {
    "base": null,
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used
to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results to those that
match one or more sets of key-value pairs that you specify.</p>",
      "ListProductSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value pairs that you specify.</p>",
      "ListUserAssociationsRequest$Filters": "<p>An array of structures that you can use to filter the results to those
that match one or more sets of key-value pairs that you specify.</p>"
    }
  },
  "IdentityProvider": {
    "base": "<p>Details about an identity provider.</p>",
    "refs": {
      "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
      "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity

```

```

provider.</p>",
  "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
  "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
  "RegisterIdentityProviderRequest$IdentityProvider":
"<p>An object that specifies details for the identity provider.</p>",
  "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
}
},
"IdentityProviderSummary": {
  "base": "<p>Describes an identity provider.</p>",
  "refs": {
    "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
    "IdentityProviderSummaryList$member": null,
    "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
    "UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

  }
},
"IdentityProviderSummaryList": {
  "base": null,
  "refs": {
    "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata that describes the list identity
providers operation.</p>"
  }
},
"InstanceSummary": {
  "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "InstanceSummaryList$member": null
  }
},
"InstanceSummaryList": {
  "base": null,
  "refs": {
    "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
  }
}

```

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},
"InstanceUserSummary": {
  "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
    "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

    "InstanceUserSummaryList$member": null
  }
},
"InstanceUserSummaryList": {
  "base": null,
  "refs": {
    "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
  }
},
"InternalServerError": {
  "base": "<p>An exception occurred with the service.</p>",
  "refs": {
  }
},
"ListIdentityProvidersRequest": {
  "base": null,
  "refs": {
  }
},
"ListIdentityProvidersResponse": {
  "base": null,
  "refs": {
  }
},
"ListInstancesRequest": {
  "base": null,
  "refs": {
  }
},
"ListInstancesResponse": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsRequest": {
  "base": null,
  "refs": {
  }
}

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```

},
"ListProductSubscriptionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsResponse": {
  "base": null,
  "refs": {
  }
},
"ProductUserSummary": {
  "base": "<p>The summary of the user-based subscription products for a user.</p>",
  "refs": {
    "ProductUserSummaryList$member": null,
    "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>",
    "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>"
  }
},
"ProductUserSummaryList": {
  "base": null,
  "refs": {
    "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product
subscriptions operation.</p>"
  }
},
"RegisterIdentityProviderRequest": {
  "base": null,
  "refs": {
  }
},
"RegisterIdentityProviderResponse": {
  "base": null,
  "refs": {
  }
},
"ResourceNotFoundException":
{
  "base": "<p>The resource couldn't be found.</p>",
  "refs": {
  }
}

```



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},
"SecurityGroup": {
  "base": null,
  "refs": {
    "Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication
between resources in your VPC and the VPC endpoint for activation servers.</p>",
    "UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
  }
},
"ServiceQuotaExceededException": {
  "base": "<p>The request failed because a service quota is exceeded.</p>",
  "refs": {
  }
},
"Settings": {
  "base": "<p>The registered identity providers product related configuration settings such as the subnets to
provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group
should permit inbound TCP port 1688 communication
from resources in the VPC.</p>",
  "refs": {
    "IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product
related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related
configuration settings such as the subnets to provision VPC endpoints.</p>"
  }
},
"SettingsSubnetsList": {
  "base": null,
  "refs": {
    "Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
  }
},
"StartProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StartProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},

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"StopProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"String":
{
  "base": null,
  "refs": {
    "AccessDeniedException$message": null,
    "ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
    "AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",
    "AssociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "AssociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",
    "ConflictException$message": null,
    "DeregisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "DisassociateUserRequest$Domain": "<p>The domain name of the user.</p>",
    "DisassociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "DisassociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",

    "Filter$Attribute": "<p>The name of an attribute to use as a filter.</p>",
    "Filter$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",
    "Filter$Value": "<p>Value of the filter.</p>",
    "IdentityProviderSummary$FailureMessage": "<p>The failure message associated with an identity
provider.</p>",
    "IdentityProviderSummary$Product": "<p>The name of the user-based subscription product.</p>",
    "IdentityProviderSummary$Status": "<p>The status of an identity provider.</p>",
    "InstanceSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "InstanceSummary$LastStatusCheckDate": "<p>The date of the last status check.</p>",
    "InstanceSummary$Status": "<p>The status of an EC2 instance resource.</p>",
    "InstanceSummary$StatusMessage": "<p>The status message for an EC2 instance.</p>",
    "InstanceUserSummary$AssociationDate": "<p>The date a user was associated with an
EC2 instance.</p>",
    "InstanceUserSummary$DisassociationDate": "<p>The date a user was disassociated from an EC2
instance.</p>",
    "InstanceUserSummary$Domain": "<p>The domain name of the user.</p>",
    "InstanceUserSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "InstanceUserSummary$Status": "<p>The status of a user associated with an EC2 instance.</p>",
    "InstanceUserSummary$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",
    "InstanceUserSummary$Username": "<p>The user name from the identity provider for the user.</p>",
    "InternalServerError$message": null,
    "ListIdentityProvidersRequest$NextToken": "<p>Token for the next set of results.</p>",
    "ListIdentityProvidersResponse$NextToken": "<p>Token for the next set of results.</p>",

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```

    "ListInstancesRequest$NextToken": "<p>Token for the next set of results.</p>",
    "ListInstancesResponse$NextToken":
    "<p>Token for the next set of results.</p>",
    "ListProductSubscriptionsRequest$NextToken": "<p>Token for the next set of results.</p>",
    "ListProductSubscriptionsRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "ListProductSubscriptionsResponse$NextToken": "<p>Token for the next set of results.</p>",
    "ListUserAssociationsRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "ListUserAssociationsRequest$NextToken": "<p>Token for the next set of results.</p>",
    "ListUserAssociationsResponse$NextToken": "<p>Token for the next set of results.</p>",
    "ProductUserSummary$Domain": "<p>The domain name of the user.</p>",
    "ProductUserSummary$Product": "<p>The name of the user-based subscription product.</p>",
    "ProductUserSummary$Status": "<p>The status of a product for a user.</p>",
    "ProductUserSummary$StatusMessage": "<p>The status
message for a product for a user.</p>",
    "ProductUserSummary$SubscriptionEndDate": "<p>The end date of a subscription.</p>",
    "ProductUserSummary$SubscriptionStartDate": "<p>The start date of a subscription.</p>",
    "ProductUserSummary$Username": "<p>The user name from the identity provider of the user.</p>",
    "RegisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "ResourceNotFoundException$message": null,
    "ServiceQuotaExceededException$message": null,
    "StartProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
    "StartProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "StartProductSubscriptionRequest$Username": "<p>The user name from the identity provider of the user.</p>",
    "StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
    "StopProductSubscriptionRequest$Product":
    "<p>The name of the user-based subscription product.</p>",
    "StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
    "StringList$member": null,
    "ThrottlingException$message": null,
    "UpdateIdentityProviderSettingsRequest$Product": "<p>The name of the user-based subscription
product.</p>",
    "ValidationException$message": null
  }
},
"StringList": {
  "base": null,
  "refs": {
    "InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
  }
},
"Subnet": {
  "base": null,
  "refs": {
    "SettingsSubnetsList$member": null,
    "Subnets$member": null
  }
}

```

```

},
"Subnets": {
  "base": null,
  "refs": {
    "UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a
VPC endpoint for products that require connectivity to activation servers.</p>",
    "UpdateSettings$RemoveSubnets":
"<p>The ID of one or more subnets to remove.</p>"
  }
},
"ThrottlingException": {
  "base": "<p>The request was denied because of request throttling. Retry the request.</p>",
  "refs": {
  }
},
"UpdateIdentityProviderSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateIdentityProviderSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateSettings": {
  "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets
to provision VPC endpoints.</p>",
  "refs": {
    "UpdateIdentityProviderSettingsRequest$updateSettings": "<p>Updates the registered identity providers
product related configuration settings. You can update any combination of settings in a single operation such as
the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets
which you want to remove the VPC endpoints
from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
  }
},
"ValidationException": {
  "base": "<p>A parameter is not valid.</p>",
  "refs": {
  }
}
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",

```

```

    "required": false,
    "documentation": "The AWS region used to dispatch the request.",
    "type": "String"
  },
  "UseDualStack": {
    "builtIn": "AWS::UseDualStack",
    "required": true,
    "default": false,
    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
    "type": "Boolean"
  },
  "UseFIPS": {
    "builtIn": "AWS::UseFIPS",
    "required": true,
    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {
    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [

```

```

        {
            "ref": "Endpoint"
        }
    ]
},
{
    "fn": "parseURL",

    "argv": [
        {
            "ref": "Endpoint"
        }
    ],
    "assign": "url"
}
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ]
            }
        ]
    }
]

```

```

    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
  },

  {
    "conditions": [],
    "endpoint": {
      "url": {
        "ref": "Endpoint"
      },
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],

  {
    "fn": "booleanEquals",
    "argv": [
      {
        "ref": "UseDualStack"
      },
      true
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",

```

```

      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            }
          ]
        },
        "supportsFIPS"
      ]
    },
    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            }
          ],
          "supportsDualStack"
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  {
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",

```



```

        "type": "error"
      }
    ]
  },
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}

```

```

    }
  ]
},
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
],
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [],

```

```

        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},

            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
}

```

AWS SDK for Go

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```

{
    "pagination": {
        "ListLinuxSubscriptionInstances": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "Instances"
        },
        "ListLinuxSubscriptions": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "Subscriptions"
        }
    }
}

```

```

}
}
{
  "testCases": [
    {
      "documentation": "For region ap-south-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.ap-south-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "ap-south-1",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region ap-south-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "ap-south-1",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-south-1 with FIPS disabled
and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.ap-south-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": false,
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    }
  }
},
{
  "params": {
    "UseFIPS": false,
    "Region": "ap-east-1",
    "UseDualStack": true
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  "expect": {
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    "UseDualStack": false
  }
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    "UseDualStack": true
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    "Region": "ap-southeast-1",
    "UseDualStack": true
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    }
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  "params": {
    "UseFIPS": true,
    "Region": "ap-southeast-2",
    "UseDualStack": true
  }
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enabled and DualStack disabled",
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    "Region": "ap-southeast-2",
    "UseDualStack": false
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    "Region": "ap-southeast-2",
    "UseDualStack": true
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{
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    "endpoint":

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{
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}
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"params": {
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    "Region": "ap-southeast-2",
    "UseDualStack": false
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    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
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    "params": {
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        "Region": "us-east-1",
        "UseDualStack": true
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    "expect": {
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        "UseDualStack": false
    }
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  "params": {
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    "UseDualStack": false
  }
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  "params": {
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    "Region": "us-east-2",
    "UseDualStack": true
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    }
  }
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      "UseDualStack": true
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      }
    },
    "params": {
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      "Region": "us-east-2",
      "UseDualStack": false
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  {
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    "expect":
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    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "Region": "us-east-1",
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
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  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
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    "Region": "us-east-1",
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{

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      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
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}
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  "version": "2.0",
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    "jsonVersion": "1.1",
    "protocol": "json",
    "serviceFullName": "AWS License Manager",
    "serviceId": "License Manager",
    "signatureVersion": "v4",
    "targetPrefix": "AWSLicenseManager",
    "uid": "license-manager-2018-08-01"
  },
  "operations": {
    "AcceptGrant": {
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      "http": {
        "method": "POST",
        "requestUri": "/"
      },
      "input": { "shape": "AcceptGrantRequest" },
      "output": { "shape": "AcceptGrantResponse" },
      "errors": [
        { "shape": "ValidationException" },
        { "shape": "InvalidParameterValueException" },
        { "shape": "AuthorizationException" },
        { "shape": "AccessDeniedException" },
        { "shape": "RateLimitExceededException" },
        { "shape": "ResourceLimitExceededException" },
        { "shape": "ServerInternalException" }
      ]
    }
  },
  "CheckInLicense": {

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  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"ConflictException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
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  "requestUri":"/"
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"output":{"shape":"CheckoutBorrowLicenseResponse"},
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  {"shape":"InvalidParameterValueException"},
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  {"shape":"EntitlementNotAllowedException"},
  {"shape":"UnsupportedDigitalSignatureMethodException"},
  {"shape":"RedirectException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
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  "requestUri":"/"
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"output":{"shape":"CheckoutLicenseResponse"},

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  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
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    "requestUri":"/"
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  "output":{"shape":"CreateGrantResponse"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"}
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    "requestUri":"/"
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  "output":{"shape":"CreateGrantVersionResponse"},
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    {"shape":"AuthorizationException"},
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    {"shape":"RateLimitExceededException"}
  ]
}

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    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"CreateLicenseConfigurationRequest"},
  "output":{"shape":"CreateLicenseConfigurationResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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"CreateLicenseConversionTaskForResource":{
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  "http":{
    "method":"POST",
    "requestUri":"/"
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  "output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
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    {"shape":"RateLimitExceededException"},
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  "output":{"shape":"CreateLicenseVersionResponse"},
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    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"},
    {"shape":"ConflictException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"}
  ]
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    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ]
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  "http":{
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  "output":{"shape":"DeleteGrantResponse"},
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    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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    "requestUri":"/"
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  "output":{"shape":"DeleteLicenseResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"RedirectException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "output":{"shape":"DeleteLicenseConfigurationResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "http":{
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    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
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  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"RedirectException"}
]
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"output":{"shape":"ExtendLicenseConsumptionResponse"},
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  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"ResourceNotFoundException"}
]
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"http":{"
"method":"POST",
"requestUri":"/"
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  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
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"GetGrant":{"
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  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
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  "output":{"shape":"GetLicenseResponse"},
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    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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  "output":{"shape":"GetLicenseConfigurationResponse"},
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    {"shape":"RateLimitExceededException"}
  ]
}

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  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "http":{
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  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
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    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
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  ]
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  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},

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    {"shape":"ServerInternalException"}
  ]
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    "requestUri":"/"
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  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
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    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListDistributedGrants":{
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  "http":{
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    "requestUri":"/"
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  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},

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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "http":{
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  "output":{"shape":"ListLicenseConfigurationsResponse"},
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    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},

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  {"shape":"AccessDeniedException"},
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  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
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    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
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  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
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    {"shape":"RateLimitExceededException"}
  ]
},
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}

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    "output":{"shape":"ListLicenseVersionsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ]
  },
  "ListLicenses":{"
    "name":"ListLicenses",
    "http":{"
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListLicensesRequest"},
    "output":{"shape":"ListLicensesResponse"},
    "errors":[
      {"shape":"ValidationException"},

      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ]
  },
  "ListReceivedGrants":{"
    "name":"ListReceivedGrants",
    "http":{"
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListReceivedGrantsRequest"},
    "output":{"shape":"ListReceivedGrantsResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListReceivedGrantsForOrganization":{"

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"name":"ListReceivedGrantsForOrganization",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
"output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},

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"errors":[
  {"shape":"ValidationException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  }
}

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    },
    "input": {"shape": "TagResourceRequest"},
    "output": {"shape": "TagResourceResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ]
  },
  "UntagResource": {
    "name": "UntagResource",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "UntagResourceRequest"},
    "output": {"shape": "UntagResourceResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ]
  },
  "UpdateLicenseConfiguration": {
    "name": "UpdateLicenseConfiguration",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "UpdateLicenseConfigurationRequest"},
    "output": {"shape": "UpdateLicenseConfigurationResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "ResourceLimitExceededException"}
    ]
  },
  "UpdateLicenseManagerReportGenerator": {
    "name": "UpdateLicenseManagerReportGenerator",
    "http": {
      "method": "POST",

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    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
},
"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"InvalidResourceStateException"},
  {"shape":"LicenseUsageException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
}

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    ]
  }
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
      "ExtendConsumptionLicense",
      "ListPurchasedLicenses",
      "CreateToken"
    ]
  },
  "AllowedOperationList":{
    "type":"list",
    "member":{"shape":"AllowedOperation"},

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    "max":7,
    "min":1
  },
  "Arn":{
    "type":"string",
    "max":2048,
    "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-
Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=,@.-]{0,1023}$"
  },
  "ArnList":{
    "type":"list",
    "member":{"shape":"Arn"}
  },
  "AuthorizationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    }
  },
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{"shape":"DateTime"}
  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
}

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},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
    "NodeId":{"shape":"String"},
    "CheckoutMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "NodeId":{"shape":"String"},
    "SignedToken":{"shape":"SignedToken"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "CheckoutMetadata":{"shape":"MetadataList"}
  }
},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},

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    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
  }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",

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"members":{
  "ResourceType":{"shape":"ResourceType"},
  "ConsumedLicenses":{"shape":"BoxLong"}
}
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",

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    "GrantArn"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"},
    "Status":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "SourceVersion":{"shape":"String"},
    "Options":{"shape":"Options"}
  }
},
"CreateGrantVersionResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "LicenseRules":{"shape":"StringList"},
    "Tags":{"shape":"TagList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ProductInformationList":{"shape":"ProductInformationList"}
  }
},
"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[

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```

    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{"shape":"Arn"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",

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    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "Entitlements":{"shape":"EntitlementList"},
    "Beneficiary":{"shape":"String"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},

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```

    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "Status":{"shape":"LicenseStatus"},
    "ClientToken":{"shape":"ClientToken"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{"
  "type":"structure",
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{"
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{"
  "type":"structure",
  "members":{"
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{"
  "type":"structure",
  "required":["Begin"],
  "members":{"
    "Begin":{"shape":"ISO8601DateTime"},

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    "End":{"shape":"ISO8601DateTime"}
  }
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"}
  }
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{

```



```

"type":"structure",
"required":[
  "LicenseArn",
  "SourceVersion"
],
"members":{
  "LicenseArn":{"shape":"Arn"},
  "SourceVersion":{"shape":"String"}
}
},
"DeleteLicenseResponse":{
"type":"structure",
"members":{
  "Status":{"shape":"LicenseDeletionStatus"},
  "DeletionDate":{"shape":"ISO8601DateTime"}
}
},
"DeleteTokenRequest":{
"type":"structure",
"required":["TokenId"],
"members":{
  "TokenId":{"shape":"String"}
}
},
"DeleteTokenResponse":{
"type":"structure",
"members":{
}
},
"DigitalSignatureMethod":{
"type":"string",
"enum":["JWT_PS384"]
},
"Entitlement":{
"type":"structure",
"required":[
  "Name",
  "Unit"
],
"members":{
  "Name":{"shape":"String"},
  "Value":{"shape":"String"},
  "MaxCount":{"shape":"Long"},
  "Overage":{"shape":"BoxBoolean"},
  "Unit":{"shape":"EntitlementUnit"},
  "AllowCheckIn":{"shape":"BoxBoolean"}
}
}

```

```
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
}
```

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]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",

"Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",

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"required":[
  "Name",
  "ConsumedValue",
  "Unit"
],
"members":{
  "Name":{"shape":"String"},
  "ConsumedValue":{"shape":"String"},
  "MaxCount":{"shape":"String"},
  "Unit":{"shape":"EntitlementDataUnit"}
}
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "DryRun":{"shape":"Boolean"}
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Expiration":{"shape":"ISO8601DateTime"}
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{"shape":"FilterName"},
    "Values":{"shape":"FilterValues"}
  }
},
"FilterLimitExceededException":{
  "type":"structure",

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"members":{
  "Message":{"shape":"Message"}
},
"exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{

```

```

"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
  "LicenseConfigurationArn":{"shape":"String"}
}
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
"members":{
  "LicenseConfigurationId":{"shape":"String"},
  "LicenseConfigurationArn":{"shape":"String"},
  "Name":{"shape":"String"},
  "Description":{"shape":"String"},
  "LicenseCountingType":{"shape":"LicenseCountingType"},
  "LicenseRules":{"shape":"StringList"},
  "LicenseCount":{"shape":"BoxLong"},
  "LicenseCountHardLimit":{"shape":"BoxBoolean"},
  "ConsumedLicenses":{"shape":"BoxLong"},
  "Status":{"shape":"String"},
  "OwnerAccountId":{"shape":"String"},
  "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
  "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
  "Tags":{"shape":"TagList"},
  "ProductInformationList":{"shape":"ProductInformationList"},
  "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
  "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"GetLicenseConversionTaskRequest":{
  "type":"structure",
"required":["LicenseConversionTaskId"],
"members":{
  "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
}
},
"GetLicenseConversionTaskResponse":{
  "type":"structure",
"members":{
  "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
  "ResourceArn":{"shape":"String"},
  "SourceLicenseContext":{"shape":"LicenseConversionContext"},
  "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
  "StatusMessage":{"shape":"String"},
  "Status":{"shape":"LicenseConversionTaskStatus"},
  "StartTime":{"shape":"DateTime"},
  "LicenseConversionTime":{"shape":"DateTime"},
  "EndTime":{"shape":"DateTime"}
}
}

```

```

},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"GetLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "ReportGenerator":{"shape":"ReportGenerator"}
  }
},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",

```

```

"members":{
  "S3BucketArn":{"shape":"String"},
  "SnsTopicArn":{"shape":"String"},
  "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
  "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
  "LicenseManagerResourceShareArn":{"shape":"String"}
}
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"},
    "Options":{"shape":"Options"}
  }
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",

```



```

    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
  "CreateTime":{"shape":"ISO8601DateTime"},
  "Version":{"shape":"String"},
  "ReceivedMetadata":{"shape":"ReceivedMetadata"}
  }
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{"
  "type":"string",
  "max":50,
  "pattern":"^(-?(?:[1-9][0-9]*)?0{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
  },
  "Integer":{"type":"integer"},
  "InvalidParameterValueException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true,
    "synthetic":true
  },
  "InvalidResourceStateException":{
    "type":"structure",
    "members":{

```

```

    "Message":{"shape":"Message"}
  },
  "exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"}
  }
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
},
"License":{
  "type":"structure",
  "members":{

```

```

"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
>Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"}
}
},
"LicenseConfiguration":{
"type":"structure",
"members":{
"LicenseConfigurationId":{"shape":"String"},
"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
>Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
>Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
}
},
"LicenseConfigurationAssociation":{
"type":"structure",
"members":{
"ResourceArn":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"AmiAssociationScope":{"shape":"String"}
}
},

```

```

"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
}

```

```

    }
  },
  "LicenseConversionTaskId":{
    "type":"string",
    "max":50,
    "pattern":"^lct-[a-zA-Z0-9]*"
  },
  "LicenseConversionTaskStatus":{
    "type":"string",
    "enum":[
      "IN_PROGRESS",
      "SUCCEEDED",
      "FAILED"
    ]
  },
  "LicenseConversionTasks":{
    "type":"list",
    "member":{"shape":"LicenseConversionTask"}
  },
  "LicenseCountingType":{
    "type":"string",
    "enum":[
      "vCPU",
      "Instance",
      "Core",
      "Socket"
    ]
  },
  "LicenseDeletionStatus":{
    "type":"string",
    "enum":[
      "PENDING_DELETE",
      "DELETED"
    ]
  },
  "LicenseList":{
    "type":"list",
    "member":{"shape":"License"}
  },
  "LicenseOperationFailure":{
    "type":"structure",
    "members":{
      "ResourceArn":{"shape":"String"},
      "ResourceType":{"shape":"ResourceType"},
      "ErrorMessage":{"shape":"String"},
      "FailureTime":{"shape":"DateTime"},
      "OperationName":{"shape":"String"},
      "ResourceOwnerId":{"shape":"String"},

```

```

    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
  }
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
>ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],

```

```

"members":{
  "LicenseConfigurationArn":{"shape":"String"},
  "MaxResults":{"shape":"BoxInteger"},
  "NextToken":{"shape":"String"}
}
},
>ListAssociationsForLicenseConfigurationResponse:{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
>ListDistributedGrantsRequest:{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListDistributedGrantsResponse:{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
>ListFailuresForLicenseConfigurationOperationsRequest:{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
>ListFailuresForLicenseConfigurationOperationsResponse:{
  "type":"structure",
  "members":{
    "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseConfigurationsRequest:{
  "type":"structure",
  "members":{

```

```

    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConversionTasksRequest":{"
  "type":"structure",
  "members":{"
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConversionTasksResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseManagerReportGeneratorsRequest":{"
  "type":"structure",
  "members":{"
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseManagerReportGeneratorsResponse":{"
  "type":"structure",
  "members":{"
    "ReportGenerators":{"shape":"ReportGeneratorList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"},

```



```

    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{

```

```

    "LicenseArn":{"shape":"Arn"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListReceivedGrantsForOrganizationResponse":{"
  "type":"structure",
  "members":{"
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
>ListReceivedGrantsRequest":{"
  "type":"structure",
  "members":{"
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListReceivedGrantsResponse":{"
  "type":"structure",
  "members":{"
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
>ListReceivedLicensesForOrganizationRequest":{"
  "type":"structure",
  "members":{"
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListReceivedLicensesForOrganizationResponse":{"
  "type":"structure",
  "members":{"
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
>ListReceivedLicensesRequest":{"
  "type":"structure",
  "members":{"
    "LicenseArns":{"shape":"ArnList"},

```

```

    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{"shape":"ResourceInventoryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{"shape":"TagList"}
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{"shape":"StringList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
}

```

```

},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
    "NextToken":{"shape":"String"}
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},

```

```

"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"Options":{
  "type":"structure",
  "members":{
    "ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
  }
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{"shape":"Boolean"}
  }
},
"PrincipalArnList":{
  "type":"list",
  "member":{"shape":"Arn"},
  "max":1,
  "min":1
},
"ProductInformation":{
  "type":"structure",
  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members":{
    "ResourceType":{"shape":"String"},
    "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
}

```

```

},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{"shape":"String"},
    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",

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```

    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",

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"members":{
  "value":{"shape":"Integer"},
  "period":{"shape":"ReportFrequencyType"}
}
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{

```



```

"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{"
"type":"structure",
"members":{"
"ResourceId":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"},
"PlatformVersion":{"shape":"String"},
"ResourceOwningAccountId":{"shape":"String"}
}
},
"ResourceInventoryList":{"
"type":"list",
"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{"
"type":"structure",
"members":{"
"Message":{"shape":"Message"}
},
"exception":true
},
"ResourceNotFoundException":{"
"type":"structure",
"members":{"
"Message":{"shape":"Message"}
},
"exception":true
},
"ResourceType":{"
"type":"string",
"enum":[
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{"
"type":"structure",
"members":{"
"bucket":{"shape":"String"},
"keyPrefix":{"shape":"String"}
}
}

```

```

}
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
}

```

```

    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "TokenData":{
    "type":"structure",
    "members":{
      "TokenId":{"shape":"String"},
      "TokenType":{"shape":"String"},
      "LicenseArn":{"shape":"String"},
      "ExpirationTime":{"shape":"ISO8601DateTime"},
      "TokenProperties":{"shape":"MaxSize3StringList"},
      "RoleArns":{"shape":"ArnList"},
      "Status":{"shape":"String"}
    }
  },
  "TokenList":{
    "type":"list",
    "member":{"shape":"TokenData"}
  },
  "TokenString":{
    "type":"string",
    "max":4096,
    "pattern":"\\S+"
  },
  "TokenType":{
    "type":"string",
    "enum":["REFRESH_TOKEN"]
  },
  "UnsupportedDigitalSignatureMethodException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "TagKeys"
    ],
    "members":{
      "ResourceArn":{"shape":"String"},
      "TagKeys":{"shape":"TagKeyList"}
    }
  }
}

```

```

    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{"shape":"String"},
      "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
      "LicenseRules":{"shape":"StringList"},
      "LicenseCount":{"shape":"BoxLong"},
      "LicenseCountHardLimit":{"shape":"BoxBoolean"},
      "Name":{"shape":"String"},
      "Description":{"shape":"String"},
      "ProductInformationList":{"shape":"ProductInformationList"},
      "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
    }
  },
  "UpdateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "LicenseManagerReportGeneratorArn",
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "LicenseManagerReportGeneratorArn":{"shape":"String"},
      "ReportGeneratorName":{"shape":"ReportGeneratorName"},
      "Type":{"shape":"ReportTypeList"},
      "ReportContext":{"shape":"ReportContext"},
      "ReportFrequency":{"shape":"ReportFrequency"},
      "ClientToken":{"shape":"ClientRequestToken"},
      "Description":{"shape":"String"}
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse":{

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```

    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{"shape":"String"},
      "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
      "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "members":{
      "S3BucketArn":{"shape":"String"},
      "SnsTopicArn":{"shape":"String"},
      "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
      "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UsageOperation":{
    "type":"string",
    "max":50
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  }
}
{
  "version":"2.0",
  "metadata":{

```

```

"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-linux-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"serviceFullName":"AWS License Manager Linux Subscriptions",
"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10"
},
"operations":{
  "GetServiceSettings":{
    "name":"GetServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/GetServiceSettings",
      "responseCode":200
    },
    "input":{"shape":"GetServiceSettingsRequest"},
    "output":{"shape":"GetServiceSettingsResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  },
  "ListLinuxSubscriptionInstances":{
    "name":"ListLinuxSubscriptionInstances",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListLinuxSubscriptionInstances",
      "responseCode":200
    },
    "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
    "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  },
  "ListLinuxSubscriptions":{
    "name":"ListLinuxSubscriptions",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListLinuxSubscriptions",

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    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionsRequest"},
  "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/UpdateServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
}
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Operator":{"shape":"Operator"},
      "Values":{"shape":"StringList"}
    }
  }
}

```

```

    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
    }
  },
  "Instance":{
    "type":"structure",
    "members":{
      "AccountID":{"shape":"String"},
      "AmiId":{"shape":"String"},
      "InstanceId":{"shape":"String"},
      "InstanceType":{"shape":"String"},
      "LastUpdatedTime":{"shape":"String"},
      "ProductCode":{"shape":"ProductCodeList"},
      "Region":{"shape":"String"},
      "Status":{"shape":"String"},
      "SubscriptionName":{"shape":"String"},
      "UsageOperation":{"shape":"String"}
    }
  },
  "InstanceList":{
    "type":"list",
    "member":{"shape":"Instance"}
  },
  "InternalServerError":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true,
    "fault":true
  }
}

```



```

},
"LinuxSubscriptionsDiscovery":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{"shape":"OrganizationIntegration"},
    "SourceRegions":{"shape":"StringList"}
  }
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{"shape":"InstanceList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionsRequestNextTokenString":{

```

```

    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "Subscriptions":{"shape":"SubscriptionList"}
    }
  },
  "Operator":{
    "type":"string",
    "enum":[
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max":20,
    "min":1
  },
  "OrganizationIntegration":{
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },
  "ProductCodeList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "Status":{
    "type":"string",
    "enum":[
      "InProgress",
      "Completed",
      "Successful",
      "Failed"
    ]
  },
  "String":{"type":"string"},
  "StringList":{
    "type":"list",
    "member":{"shape":"StringListMemberString"},
    "max":100,
    "min":1
  },

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"StringListMemberString":{
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{"shape":"BoxLong"},
    "Name":{"shape":"String"},
    "Type":{"shape":"String"}
  }
},
"SubscriptionList":{
  "type":"list",
  "member":{"shape":"Subscription"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
    "AllowUpdate":{"shape":"Boolean"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
  }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},

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    "StatusMessage":{"shape":"StringMap"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}
{
  "version": "2.0",
  "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
  "operations": {
    "AcceptGrant": "<p>Accepts the specified grant.</p>",
    "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
    "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
    "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",
    "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateLicense": "<p>Creates a license.</p>",
    "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",
    "CreateLicenseConversionTaskForResource":
    "<p>Creates a new license conversion task.</p>",
    "CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",
    "CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",
    "CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",
    "DeleteGrant": "<p>Deletes the specified grant.</p>",
    "DeleteLicense": "<p>Deletes the specified license.</p>",
    "DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",
    "DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It

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has no effect on the previous reports from this generator.</p>",  
"DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",  
"ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",  
"GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",  
"GetGrant": "<p>Gets detailed information about the specified grant.</p>",  
"GetLicense": "<p>Gets detailed information about the specified license.</p>",  
"GetLicenseConfiguration": "<p>Gets detailed information about the specified license configuration.</p>",  
"GetLicenseConversionTask": "<p>Gets information about the specified license type conversion task.</p>",  
"GetLicenseManagerReportGenerator": "<p>Gets information about the specified report generator.</p>",  
"GetLicenseUsage": "<p>Gets detailed information about the usage of the specified license.</p>",  
"GetServiceSettings":  
<p>Gets the License Manager settings for the current Region.</p>",  
"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>",  
"ListDistributedGrants": "<p>Lists the grants distributed for the specified license.</p>",  
"ListFailuresForLicenseConfigurationOperations": "<p>Lists the license configuration operations that failed.</p>",  
"ListLicenseConfigurations": "<p>Lists the license configurations for your account.</p>",  
"ListLicenseConversionTasks": "<p>Lists the license type conversion tasks for your account.</p>",  
"ListLicenseManagerReportGenerators": "<p>Lists the report generators for your account.</p>",  
"ListLicenseSpecificationsForResource": "<p>Describes the license configurations for the specified resource.</p>",  
"ListLicenseVersions": "<p>Lists all versions of the specified license.</p>",  
"ListLicenses": "<p>Lists the licenses for your account.</p>",  
"ListReceivedGrants": "<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>",  
"ListReceivedGrantsForOrganization": "<p>Lists the grants received for all accounts in the organization.</p>",  
"ListReceivedLicenses": "<p>Lists received licenses.</p>",  
"ListReceivedLicensesForOrganization": "<p>Lists the licenses received for all accounts in the organization.</p>",  
"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",  
"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",  
"ListTokens": "<p>Lists your tokens.</p>",  
"ListUsageForLicenseConfiguration":  
<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",  
"RejectGrant": "<p>Rejects the specified grant.</p>",  
"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",  
"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",  
"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",  
"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",  
"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the

license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.

```
"UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"
},
"shapes": {
  "AcceptGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "AcceptGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "AccessDeniedException": {
    "base": "<p>Access to resource denied.</p>",
    "refs": {
    }
  },
  "ActivationOverrideBehavior": {
    "base": null,
    "refs": {
      "Options$ActivationOverrideBehavior": "<p>An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p> </li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate a grant without replacing any member accounts active grants for the same product.</p> </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.</p> </dd> </dl>"
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
```

```

"refs": {
  "CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
  "CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
  "Grant$GrantedOperations": "<p>Granted operations.</p>",
  "ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
}
},
"Arn": {
  "base": null,
  "refs": {
    "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "ArnList$member": null,
    "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
    "CheckoutBorrowLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateLicenseConversionTaskForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
    "CreateLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionResponse$LicenseArn": "<p>License ARN.</p>",
    "CreateTokenRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token.</p>",
    "DeleteGrantRequest$GrantArn":
"<p>Amazon Resource Name (ARN) of the grant.</p>",
    "DeleteGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "DeleteLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "GetLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetLicenseUsageRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "Grant$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "Grant$ParentArn": "<p>Parent ARN.</p>",
    "Grant$LicenseArn": "<p>License ARN.</p>",
    "Grant$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",
    "GrantedLicense$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "License$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "ListLicenseVersionsRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "ListReceivedGrantsForOrganizationRequest$LicenseArn": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
    "PrincipalArnList$member": null,
    "RejectGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "RejectGrantResponse$GrantArn": "<p>Grant ARN.</p>"
  }
}

```

```

    }
  },
  "ArnList": {
    "base": null,
    "refs": {
      "CreateTokenRequest$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use.</p>",
      "ListDistributedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
      "ListLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
      "ListReceivedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
      "ListReceivedLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

      "ReportContext$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
      "TokenData$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
    }
  },
  "AuthorizationException": {
    "base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",
    "refs": {
    }
  },
  "AutomatedDiscoveryInformation": {
    "base": "<p>Describes automated discovery.</p>",
    "refs": {
      "GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>",
      "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
    }
  },
  "Boolean": {
    "base": null,
    "refs": {
      "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>",
      "OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
    }
  },
  "BorrowConfiguration": {
    "base": "<p>Details about a borrow configuration.</p>",
    "refs": {
      "ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
    }
  },
  "BoxBoolean": {
    "base": null,

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"refs": {
  "BorrowConfiguration$AllowEarlyCheckIn": "<p>Indicates whether early check-ins are allowed.</p>",
  "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Indicates whether hard or soft license
enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",
  "CreateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
  "Entitlement$Overage": "<p>Indicates
whether overages are allowed.</p>",
  "Entitlement$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",
  "GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a
hard limit.</p>",
  "GetLicenseConfigurationResponse$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
  "GetServiceSettingsResponse$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account
discovery is enabled.</p>",
  "LicenseConfiguration$LicenseCountHardLimit": "<p>Number of available licenses as a hard limit.</p>",
  "LicenseConfiguration$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software
is uninstalled.</p>",
  "UpdateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>New hard limit of the number of
available licenses.</p>",
  "UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates
a resource when software is uninstalled.</p>",
  "UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": "<p>Activates cross-account
discovery.</p>"
}
},
"BoxInteger": {
  "base": null,
  "refs": {
    "BorrowConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in
minutes.</p>",
    "ListAssociationsForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in
a single call.</p>",
    "ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": "<p>Maximum number of results to
return in a single call.</p>",
    "ListLicenseConfigurationsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
    "ListLicenseConversionTasksRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
    "ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",

    "ListResourceInventoryRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListUsageForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
    "ProvisionalConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration,
in minutes.</p>"
  }
}

```

```

    },
    "BoxLong": {
      "base": null,
      "refs": {
        "ConsumedLicenseSummary$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
        "CreateLicenseConfigurationRequest$LicenseCount": "<p>Number of licenses managed by the license
configuration.</p>",
        "GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
        "GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
        "LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
        "LicenseConfiguration$ConsumedLicenses":
"<p>Number of licenses consumed. </p>",
        "LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
        "ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
        "UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"
      }
    },
    "CheckInLicenseRequest": {
      "base": null,
      "refs": {
      }
    },
    "CheckInLicenseResponse": {
      "base": null,
      "refs": {
      }
    },
    "CheckoutBorrowLicenseRequest": {
      "base": null,
      "refs": {
      }
    },
    "CheckoutBorrowLicenseResponse": {
      "base": null,
      "refs": {
      }
    },
    "CheckoutLicenseRequest": {
      "base": null,
      "refs": {
      }
    },
    "CheckoutLicenseResponse": {
      "base": null,
      "refs": {
      }
    },
  },

```

```

"CheckoutType": {
  "base": null,
  "refs": {
    "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
    "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
  }
},
"ClientRequestToken": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
},
"ClientToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateTokenRequest$ClientToken": "<p>Idempotency token, valid for 10 minutes.</p>"
  }
},
"ConflictException": {
  "base": "<p>There was a conflict processing the request. Try your request again.</p>",
  "refs": {
  }
},
"ConsumedLicenseSummary": {
  "base": "<p>Details about license consumption.</p>",
  "refs": {
    "ConsumedLicenseSummaryList$member": null
  }
},
"ConsumedLicenseSummaryList": {
  "base": null,
  "refs": {

```

```

    "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses
consumed by resources.</p>",
    "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
resources.</p>"
  }
},
"ConsumptionConfiguration": {
  "base": "<p>Details about a consumption configuration.</p>",
  "refs": {
    "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
    "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the
license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
    "GrantedLicense$ConsumptionConfiguration":
"<p>Configuration for consumption of the license.</p>",
    "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
  }
},
"CreateGrantRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantResponse": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
}

```

```
}
},
"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

  }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateTokenRequest": {
  "base": null,
  "refs": {
  }
},
},
```

```

"CreateTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DateTime": {
  "base": null,
  "refs": {
    "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
    "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was
started .</p>",
    "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license
type conversion.</p>",
    "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was
completed.</p>",
    "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
with the resource.</p>",
    "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially
associated with the resource.</p>",
    "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
    "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource
was changed.</p>",
    "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
    "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
  }
},
"DatetimeRange": {
  "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
  "refs": {
    "CreateLicenseRequest$Validity": "<p>Date
and time range during which the license is valid, in ISO8601-UTC format.</p>",
    "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
    "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
    "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  }
},
>DeleteGrantRequest": {
  "base": null,
  "refs": {
  }
},
>DeleteGrantResponse": {
  "base": null,
  "refs": {
  }
},

```

```

"DeleteLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DigitalSignatureMethod": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS) algorithm PS384. For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
  }
},

```

```

"Entitlement": {
  "base": "<p>Describes a resource entitled for use with a license.</p>",
  "refs": {
    "EntitlementList$member": null
  }
},
"EntitlementData": {
  "base": "<p>Data associated with an entitlement resource.</p>",

  "refs": {
    "EntitlementDataList$member": null
  }
},
"EntitlementDataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not supported.</p>",
    "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
    "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
  }
},
"EntitlementDataUnit": {
  "base": null,
  "refs": {
    "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
    "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
  }
},
"EntitlementList": {
  "base": null,
  "refs": {
    "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
    "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
    "License$Entitlements": "<p>License entitlements.</p>"
  }
},
"EntitlementNotAllowedException": {
  "base": "<p>The entitlement is not allowed.</p>",
  "refs": {
  }
},
"EntitlementUnit": {
  "base": null,
  "refs": {

```



```

    "Entitlement$Unit": "<p>Entitlement unit.</p>"
  }
},
"EntitlementUsage": {
  "base": "<p>Usage associated with an entitlement resource.</p>",
  "refs": {
    "EntitlementUsageList$member": null
  }
},
"EntitlementUsageList": {
  "base": null,
  "refs": {
    "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
  }
},
"ExtendLicenseConsumptionRequest": {
  "base": null,
  "refs": {
  }
},
"ExtendLicenseConsumptionResponse": {
  "base": null,
  "refs": {
  }
},
"FailedDependencyException": {
  "base": "<p>A dependency required to run the API is missing.</p>",
  "refs": {
  }
},
"Filter": {
  "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation.
Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
  "refs": {
    "FilterList$member": null,
    "Filters$member": null
  }
},
"FilterLimitExceededException": {
  "base": "<p>The request uses too many filters or too many filter values.</p>",
  "refs": {
  }
},
"FilterList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li>"
  }
}

```

```

</li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li>
<li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
  "ListLicenseManagerReportGeneratorsRequest$Filters":
  "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>",
  "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul>
<li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>",
  "ListReceivedGrantsForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code>
</p> </li> </ul>",
  "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p>
<ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li>
<p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code>
</p> </li> <li> <p> <code>GranterAccountId</code> </p> </li> </ul>",
  "ListReceivedLicensesForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters
are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p>
</li> </ul>",
  "ListReceivedLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Status</code> </p> </li>
<li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>IssuerName</code> </p> </li> <li> <p>
<code>Beneficiary</code> </p> </li> </ul>",
  "ListTokensRequest$Filters": "<p>Filters to scope the results. The following filter is supported:</p> <ul> <li>
<p> <code>LicenseArns</code> </p> </li> </ul>"
  }
},
"FilterName": {
  "base": null,
  "refs": {
    "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
  }
},
"FilterValue": {
  "base": null,
  "refs": {
    "FilterValues$member": null
  }
},
"FilterValues": {
  "base": null,
  "refs": {
    "Filter$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the
filter.</p>"
  }
},
"Filters": {
  "base": null,
  "refs": {

```

"ListLicenseConfigurationsRequest\$Filters": "

Filters to scope the results. The following filters and logical operators are supported:

- `licenseCountingType` - The dimension for which licenses are counted. Possible values are `vCPU` | `Instance` | `Core` | `Socket`. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `enforceLicenseCount` - A Boolean value that indicates whether hard license enforcement is used. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `usagelimitExceeded` - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are `EQUALS` | `NOT_EQUALS`.

",

"ListLicenseConversionTasksRequest\$Filters": "

Filters to scope the results. Valid filters are `ResourceArns` and `Status`.

",

"ListUsageForLicenseConfigurationRequest\$Filters": "

Filters to scope the results. The following filters and logical operators are supported:

- `resourceArn` - The ARN of the license configuration resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `resourceType` - The resource type (`EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`). Logical operators are `EQUALS` | `NOT_EQUALS`.
- `resourceAccount` - The ID of the account that owns the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.

"

```
    }
  },
  "GetAccessTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetAccessTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationResponse": {
```

```
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskResponse": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorResponse": {
"base":
null,
"refs": {
}
},
"GetLicenseRequest": {
"base": null,
"refs": {
}
},
"GetLicenseResponse": {
"base": null,
"refs": {
}
},
"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
```

```

    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Grant": {
    "base": "<p>Describes a grant.</p>",
    "refs": {
      "GetGrantResponse$Grant": "<p>Grant details.</p>",
      "GrantList$member": null
    }
  },
  "GrantList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
      "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
      "ListReceivedGrantsResponse$Grants":
"<p>Received grant details.</p>"
    }
  },
  "GrantStatus": {
    "base": null,
    "refs": {
      "AcceptGrantResponse$Status": "<p>Grant status.</p>",
      "CreateGrantResponse$Status": "<p>Grant status.</p>",
      "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
      "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
      "DeleteGrantResponse$Status": "<p>Grant status.</p>",
      "Grant$GrantStatus": "<p>Grant status.</p>",
      "RejectGrantResponse$Status": "<p>Grant status.</p>"
    }
  },
  "GrantedLicense": {
    "base": "<p>Describes a license that is granted to a grantee.</p>",
    "refs": {
      "GrantedLicenseList$member": null
    }
  },
  "GrantedLicenseList": {
    "base": null,
    "refs": {
      "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has
received.</p>",
      "ListReceivedLicensesResponse$Licenses": "<p>Received license

```

```

details.</p>"
  }
},
"ISO8601DateTime": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
    "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
    "DatetimeRange$Begin": "<p>Start of the time range.</p>",
    "DatetimeRange$End": "<p>End of the time range.</p>",
    "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
    "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption expires.</p>",
    "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
    "License$CreateTime": "<p>License creation time.</p>",
    "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
  }
},
"Integer": {
  "base": null,
  "refs": {
    "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>",
    "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
  }
},
"InvalidParameterValueException": {
  "base": "<p>One or more parameter values are not valid.</p>",
  "refs": {
  }
},
"InvalidResourceStateException": {
  "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
  "refs": {
  }
},
"InventoryFilter": {
  "base": "<p>An inventory filter.</p>",
  "refs": {

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```

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
  "base": null,
  "refs": {
    "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
  }
},
"InventoryFilterList": {
  "base": null,
  "refs": {
    "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
  }
},
"Issuer": {
  "base": "<p>Details about the issuer of a license.</p>",
  "refs": {
    "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
    "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
  }
},
"IssuerDetails": {
  "base": "<p>Details associated with the issuer of a license.</p>",
  "refs": {
    "GrantedLicense$Issuer": "<p>Granted license issuer.</p>",
    "License$Issuer": "<p>License issuer.</p>"
  }
},
"License": {
  "base": "<p>Software license that is managed in License Manager.</p>",
  "refs": {
    "GetLicenseResponse$License": "<p>License details.</p>",
    "LicenseList$member": null
  }
}

```

```

    }
  },
  "LicenseConfiguration": {
    "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": "<p>Describes an association with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information about the associations for the license configuration.</p>"
    }
  },
  "LicenseConfigurationStatus": {
    "base": null,
    "refs": {
      "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration.</p>"
    }
  },
  "LicenseConfigurationUsage": {
    "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationUsageList$member": null
    }
  },
  "LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
      "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the license configurations.</p>"
    }
  },
  "LicenseConfigurations": {
    "base": null,
    "refs": {

```



```

    "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license
configurations.</p>"
  }
},
"LicenseConversionContext": {
  "base": "<p>Information about a license type conversion task.</p>",
  "refs": {
    "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies
the license type you are converting from. For the structure of the source license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
    "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that
identifies the license type you are converting to. For the structure of the destination license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert
a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
    "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type
converted from.</p>",
    "GetLicenseConversionTaskResponse$DestinationLicenseContext": "<p>Information about the license type
converted to.</p>",
    "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
converted from.</p>",
    "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion
task converted to.</p>"
  }
},
"LicenseConversionTask": {
  "base": "<p>Information about a license type conversion task.</p>",
  "refs": {
    "LicenseConversionTasks$member": null
  }
},
"LicenseConversionTaskId": {
  "base": null,
  "refs": {
    "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
"<p>The ID of the created license type conversion task.</p>",
    "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to
retrieve information on.</p>",
    "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion
task.</p>",
    "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
  }
},
"LicenseConversionTaskStatus": {
  "base": null,
  "refs": {
    "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",

```

```

    "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
  }
},
"LicenseConversionTasks": {
  "base": null,
  "refs": {
    "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license
configuration tasks for your account.</p>"
  }
},
"LicenseCountingType":
{
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
inventory.</p>",
    "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
counted.</p>",
    "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>"
  }
},
"LicenseDeletionStatus": {
  "base": null,
  "refs": {
    "DeleteLicenseResponse$Status": "<p>License status.</p>"
  }
},
"LicenseList": {
  "base": null,
  "refs": {
    "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
    "ListLicensesResponse$Licenses": "<p>License details.</p>"
  }
},
"LicenseOperationFailure": {
  "base": "<p>Describes the failure of a license operation.</p>",
  "refs": {
    "LicenseOperationFailureList$member": null
  }
},
"LicenseOperationFailureList": {
  "base":
null,
  "refs": {
    "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
  }
},

```

```

"LicenseSpecification": {
  "base": "<p>Details for associating a license configuration with a resource.</p>",
  "refs": {
    "LicenseSpecifications$member": null
  }
},
"LicenseSpecifications": {
  "base": null,
  "refs": {
    "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations associated with a resource.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license configurations to add.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license configurations to remove.</p>"
  }
},
"LicenseStatus": {
  "base": null,
  "refs": {
    "CreateLicenseResponse$Status": "<p>License status.</p>",
    "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
    "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
    "GrantedLicense$Status": "<p>Granted license status.</p>",
    "License$Status": "<p>License status.</p>"
  }
},
"LicenseUsage": {
  "base": "<p>Describes the entitlement usage associated with a license.</p>",
  "refs": {
    "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
  }
},
"LicenseUsageException": {
  "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},

```

```
"ListDistributedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListDistributedGrantsResponse":
{
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConfigurationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConfigurationsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConversionTasksRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConversionTasksResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseManagerReportGeneratorsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseManagerReportGeneratorsResponse": {
  "base": null,
```

```
"refs": {
}
},
"ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseSpecificationsForResourceResponse":
{
  "base": null,
  "refs": {
  }
},
"ListLicenseVersionsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseVersionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsRequest": {
  "base": null,
  "refs": {
  }
}
```

```
},
"ListReceivedGrantsResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesRequest":
{
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
```

```

"base": null,
"refs": {
}
},
>ListTokensResponse": {
"base": null,
"refs": {
}
},
>ListUsageForLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
>ListUsageForLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
>Location": {
"base": null,
"refs": {
"RedirectException$Location": null
}
},
>Long":
{
"base": null,
"refs": {
"Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
}
},
>ManagedResourceSummary": {
"base": "<p>Summary information about a managed resource.</p>",
"refs": {
"ManagedResourceSummaryList$member": null
}
},
>ManagedResourceSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed resources.</p>",
"LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
}
},
>MaxSize100": {
"base": null,

```

```

"refs": {
  "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
  "ListLicenseVersionsRequest$MaxResults": "<p>Maximum
number of results to return in a single call.</p>",
  "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
  "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
  "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
}
},
"MaxSize3StringList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped to the amr claim of the JWT token.</p>",

    "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT
token.</p>",
    "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
  }
},
"Message": {
  "base": null,
  "refs": {
    "AccessDeniedException$Message": null,
    "AuthorizationException$Message": null,
    "ConflictException$Message": null,
    "EntitlementNotAllowedException$Message": null,
    "FailedDependencyException$Message": null,
    "FilterLimitExceededException$Message": null,
    "InvalidParameterValueException$Message": null,
    "InvalidResourceStateException$Message": null,
    "LicenseUsageException$Message": null,
    "NoEntitlementsAllowedException$Message": null,
    "RateLimitExceededException$Message": null,
    "RedirectException$Message": null,
    "ResourceLimitExceededException$Message": null,
    "ResourceNotFoundException$Message": null,
    "ServerInternalException$Message":
null,
    "UnsupportedDigitalSignatureMethodException$Message": null,
    "ValidationException$Message": null
  }
}

```



```

    }
  },
  "Metadata": {
    "base": "<p>Describes key/value pairs.</p>",
    "refs": {
      "MetadataList$member": null
    }
  },
  "MetadataList": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
      "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
      "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
      "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
      "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
      "License$LicenseMetadata": "<p>License metadata.</p>",
      "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
    }
  },
  "NoEntitlementsAllowedException": {
    "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
    "refs": {
    }
  },
  "Options": {
    "base": "<p>The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "refs": {
      "CreateGrantVersionRequest$Options": "<p>The options specified for the grant.</p>",
      "Grant$Options": "<p>The options specified for the grant.</p>"
    }
  },
  "OrganizationConfiguration": {
    "base": "<p>Configuration information for Organizations.</p>",
    "refs": {
      "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>",
      "UpdateServiceSettingsRequest$OrganizationConfiguration":
"<p>Enables integration with Organizations for cross-account discovery.</p>"
    }
  },
  "PrincipalArnList": {
    "base": null,
    "refs": {

```

"CreateGrantRequest\$Principals": "

The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):

- An Amazon Web Services account, which includes only the account specified.
- An organizational unit (OU), which includes all accounts in the OU.
- An organization, which will include all accounts across your organization.

"

```
    }
  },
  "ProductInformation": {
    "base": "

Describes product information for a license configuration.

",
    "refs": {
      "ProductInformationList$member": null
    }
  },
  "ProductInformationFilter": {
    "base": "

Describes product information filters.

",
    "refs": {
      "ProductInformationFilterList$member":
null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": "

A Product information filter consists of a ProductInformationFilterComparator which is a logical operator, a ProductInformationFilterName which specifies the type of filter being declared, and a ProductInformationFilterValue that specifies the value to filter on. Accepted values for ProductInformationFilterName are listed here along with descriptions and valid options for ProductInformationFilterComparator. The following filters and are supported when the resource type is SSM_MANAGED:



- Application Name - The name of the application. Logical operator is EQUALS.
- Application Publisher - The publisher of the application. Logical operator is EQUALS.
- Application Version - The version of the application. Logical operator is EQUALS.
- Platform Name - The name of the platform. Logical operator is EQUALS.
- Platform Type - The platform type. Logical operator is EQUALS.
- Tag:key - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is NOT_EQUALS. The key for your tag must be appended to Tag: following the example: Tag:name-of-your-key. ProductInformationFilterValue is optional if you are not using values for the key.
- AccountId - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is NOT_EQUALS.
- License Included - The type of license included. Logical operators are EQUALS and NOT_EQUALS. Possible values are: sql-server-enterprise | sql-server-standard | sql-server-web | windows-server-datacenter.



The following filters and logical operators are supported when the resource type is RDS:



- Engine Edition - The edition of the database engine. Logical operator is EQUALS. Possible values are: oracle-ee | oracle-se | oracle-se1 | oracle-se2.

```

</li> <li> <p> <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>.</p> </li> </ul>"

```
    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
"<p>Product information.</p>",
      "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
      "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
      "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
    }
  },
  "ProvisionalConfiguration": {
    "base": "<p>Details about a provisional configuration.</p>",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
    }
  },
  "RateLimitExceededException": {
    "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": "<p>Metadata associated with received licenses and grants.</p>",
    "refs": {
      "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
    }
  },
  "ReceivedStatus": {
    "base": null,
    "refs": {
      "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
    }
  },
  "RedirectException": {
    "base": "<p>This is not the correct Region for the resource. Try again.</p>",
    "refs": {
    }
  },
  "RejectGrantRequest": {
    "base": null,
    "refs": {
    }
  },
}
```

```

"RejectGrantResponse": {
  "base": null,
  "refs": {
  }
},
"RenewType": {
  "base": null,
  "refs": {
    "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
  }
},
"ReportContext": {
  "base": "<p>Details of the license configuration that this generator reports on.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
    "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportContext":
"<p>The report context.</p>"
  }
},
"ReportFrequency": {
  "base": "<p>Details about how frequently reports are generated.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
    "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated.</p>"
  }
},
"ReportFrequencyType": {
  "base": null,
  "refs": {
    "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
  }
},
"ReportGenerator": {
  "base": "<p>Describe the details of a report generator.</p>",
  "refs": {
    "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
"<p>A report generator that creates periodic reports about your license configurations.</p>",
    "ReportGeneratorList$member": null
  }
},
"ReportGeneratorList": {
  "base": null,

```

```

"refs": {
  "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
}
},
"ReportGeneratorName": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
  }
},
"ReportType": {
  "base": null,
  "refs": {
    "ReportTypeList$member": null
  }
},
"ReportTypeList": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
be generated:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> </li> </ul>",
    "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
  }
},
"ResourceInventory": {
  "base": "<p>Details about a resource.</p>",
  "refs": {
    "ResourceInventoryList$member": null
  }
},
"ResourceInventoryList": {
  "base": null,
  "refs": {
    "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
  }
},
"ResourceLimitExceededException": {

```

```

"base": "<p>Your resource limits have been exceeded.</p>",
"refs": {
}
},
"ResourceNotFoundException": {
"base": "<p>The resource cannot be found.</p>",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",
"LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
"LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
"LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
"ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
"ResourceInventory$ResourceType": "<p>Type of resource.</p>"
}
},
"S3Location": {
"base":
"<p>Details of the S3 bucket that report generator reports are published to.</p>",
"refs": {
"ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
}
},
"ServerInternalException": {
"base": "<p>The server experienced an internal error. Try again.</p>",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
"CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
>DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
"Grant$StatusReason": "<p>Grant status reason.</p>",
"ReceivedMetadata$ReceivedStatusReason": "<p>Received status reason.</p>"
}
}

```

```

},

"String": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Version": "<p>Grant version.</p>",
    "CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",
    "CheckoutLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the checkout license.</p>",
    "CreateGrantRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantRequest$HomeRegion": "<p>Home Region of the grant.</p>",
    "CreateGrantResponse$Version": "<p>Grant version.</p>",
    "CreateGrantVersionRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantVersionRequest$SourceVersion": "<p>Current version of the grant.</p>",
    "CreateGrantVersionResponse$Version": "<p>New version of the grant.</p>",
    "CreateLicenseConfigurationRequest$Name": "<p>Name of the license configuration.</p>",
    "CreateLicenseConfigurationRequest$Description": "<p>Description of the license configuration.</p>",
    "CreateLicenseConfigurationResponse$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
    "CreateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
    "CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn":
"<p>The Amazon Resource Name (ARN) of the new report generator.</p>",
    "CreateLicenseRequest$LicenseName": "<p>License name.</p>",
    "CreateLicenseRequest$ProductName": "<p>Product name.</p>",
    "CreateLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CreateLicenseRequest$HomeRegion": "<p>Home Region for the license.</p>",
    "CreateLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CreateLicenseResponse$Version": "<p>License version.</p>",
    "CreateLicenseVersionRequest$LicenseName": "<p>License name.</p>",
    "CreateLicenseVersionRequest$ProductName": "<p>Product name.</p>",
    "CreateLicenseVersionRequest$HomeRegion": "<p>Home Region of the license.</p>",
    "CreateLicenseVersionRequest$SourceVersion": "<p>Current version of the license.</p>",
    "CreateLicenseVersionResponse$Version": "<p>New version of the license.</p>",
    "CreateTokenResponse$TokenId":
"<p>Token ID.</p>",
    "DeleteGrantRequest$Version": "<p>Current version of the grant.</p>",
    "DeleteGrantResponse$Version": "<p>Grant version.</p>",
    "DeleteLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",

```

"DeleteLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name": "<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue":

<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",



"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey":

<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$Name": "<p>Issuer name.</p>",

"IssuerDetails\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$KeyFingerprint": "<p>Issuer key fingerprint.</p>",

"License\$LicenseName": "<p>License name.</p>",

"License\$ProductName": "<p>Product name.</p>",

"License\$ProductSKU": "<p>Product SKU.</p>",

"License\$HomeRegion": "<p>Home Region of the license.</p>",

"License\$Beneficiary": "<p>License beneficiary.</p>",

"License\$Version": "<p>License version.</p>",

"LicenseConfiguration\$LicenseConfigurationId": "<p>Unique ID of the license configuration.</p>",

"LicenseConfiguration\$LicenseConfigurationArn":

<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseConfiguration\$Name": "<p>Name of the license configuration.</p>",

"LicenseConfiguration\$Description": "<p>Description of the license configuration.</p>",

"LicenseConfiguration\$Status": "<p>Status of the license configuration.</p>",

"LicenseConfiguration\$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",

"LicenseConfigurationAssociation\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationAssociation\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>",

"LicenseConfigurationAssociation\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"LicenseConfigurationUsage\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationUsage\$ResourceStatus":

<p>Status of the resource.</p>",

"LicenseConfigurationUsage\$ResourceOwnerId": "<p>ID of the account that owns the resource.</p>",

"LicenseConversionTask\$ResourceArn": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>",

"LicenseConversionTask\$StatusMessage": "<p>The status message for the conversion task.</p>",

"LicenseOperationFailure\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseOperationFailure\$ErrorMessage": "<p>Error message.</p>",

"LicenseOperationFailure\$OperationName": "<p>Name of the operation.</p>",

"LicenseOperationFailure\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",

"LicenseOperationFailure\$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",

"LicenseSpecification\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseSpecification\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListAssociationsForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"MaxSize3StringList\$member": null,

"Metadata\$Name": "<p>The key name.</p>",

"Metadata\$Value": "<p>The value.</p>",

"ProductInformation\$ResourceType": "<p>Resource type. The possible values are <code>SSM\_MANAGED</code> | <code>RDS</code>.</p>",

"ProductInformationFilter\$ProductInformationFilterName": "<p>Filter name.</p>",

"ProductInformationFilter\$ProductInformationFilterComparator": "<p>Logical operator.</p>",

"RejectGrantResponse\$Version": "<p>Grant version.</p>",

"ReportGenerator\$ReportGeneratorName": "<p>Name of the report generator.</p>",

"ReportGenerator\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"ReportGenerator\$LastRunStatus": "<p>Status of the last report generation attempt.</p>",

"ReportGenerator\$LastRunFailureReason": "<p>Failure message for the last report generation attempt.</p>",

"ReportGenerator\$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",

"ReportGenerator\$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the report generator.</p>",

"ReportGenerator\$Description": "<p>Description of the report generator.</p>",

"ReportGenerator\$CreateTime": "<p>Time the report was created.</p>",

"ResourceInventory\$ResourceId": "<p>ID of the resource.</p>",

"ResourceInventory\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"ResourceInventory\$Platform": "<p>Platform of the resource.</p>",

"ResourceInventory\$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",

"ResourceInventory\$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",

"S3Location\$bucket": "<p>Name of the S3 bucket reports are published to.</p>",

"S3Location\$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",

"StringList\$member": null,

"Tag\$Key": "<p>Tag key.</p>",

"Tag\$Value": "<p>Tag value.</p>",

"TagKeyList\$member": null,

"TagResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"TokenData\$TokenId": "<p>Token ID.</p>",

"TokenData\$TokenType": "<p>Type of token generated. The supported value is <code>REFRESH\_TOKEN</code>.</p>",

"TokenData\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"TokenData\$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>.</p>",

"UntagResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"UpdateLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"UpdateLicenseConfigurationRequest\$Name": "<p>New name of the license configuration.</p>",

"UpdateLicenseConfigurationRequest\$Description": "<p>New description of the license configuration.</p>",

"UpdateLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",

"UpdateLicenseManagerReportGeneratorRequest\$Description": "<p>Description of the report generator.</p>",

"UpdateLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",

```

    "UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3
bucket where the License Manager information is stored.</p>",
    "UpdateServiceSettingsRequest$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS
topic used for License Manager alerts.</p>"
  }
},
"StringList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseRules":
      "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The
available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code> dimension:
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> |
<code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code> dimension:
<code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p> </li> <li> <p> <code>Sockets</code> dimension:
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code> dimension:
<code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p> </li> </ul> <p>The unit for <code>licenseAffinityToHost</code>
is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-
Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible
values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",
    "GetLicenseConfigurationResponse$LicenseRules": "<p>License rules.</p>",
    "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
    "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the
license configurations.</p>",
    "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
    "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
    "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add
after you create a license configuration is licenseAffinityToHost.</p>"
  }
},
"Tag": {
  "base": "<p>Details about a tag
for a license configuration.</p>",
  "refs": {
    "TagList$member": null
  }
},
"TagKeyList": {
  "base": null,
  "refs": {
    "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
  }
},
"TagList": {

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"base": null,
"refs": {
  "CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
  "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
  "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
  "ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
  "ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
  "TagResourceRequest$Tags": "<p>One or more tags.</p>"
}
},
"TagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"TagResourceResponse": {
  "base": null,
  "refs": {

  }
},
"TokenData": {
  "base": "<p>Describes a token.</p>",
  "refs": {
    "TokenList$member": null
  }
},
"TokenList": {
  "base": null,
  "refs": {
    "ListTokensResponse$Tokens": "<p>Received token details.</p>"
  }
},
"TokenString": {
  "base": null,
  "refs": {
    "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
  }
},
"TokenType": {
  "base": null,
  "refs": {
    "CreateTokenResponse$TokenType": "<p>Token type.</p>"
  }
},
"UnsupportedDigitalSignatureMethodException": {

```

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"base": "<p>The digital signature method is unsupported. Try your request again.</p>",
"refs": {
}
},
"UntagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"UntagResourceResponse":
{
  "base": null,
  "refs": {
  }
},
"UpdateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseSpecificationsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateServiceSettingsRequest": {
  "base": null,
  "refs": {
```

```

    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
}
{
  "version": "2.0",
  "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running
Amazon EC2 instances.</p>",
  "operations": {
    "GetServiceSettings": "<p>Lists the Linux subscriptions service settings.</p>",
    "ListLinuxSubscriptionInstances": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux subscriptions.</p>",
    "ListLinuxSubscriptions": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your
organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
    "UpdateServiceSettings": "<p>Updates the service settings for Linux subscriptions.</p>"
  },
  "shapes": {
    "Boolean": {
      "base": null,
      "refs": {
        "UpdateServiceSettingsRequest$AllowUpdate": "<p>Describes if updates are allowed to the service settings for
Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in
more than one home Region.</p>"
      }
    },
    "BoxInteger": {
      "base": null,
      "refs": {

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    "ListLinuxSubscriptionInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
    "ListLinuxSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
  }
},
"BoxLong": {
  "base": null,
  "refs": {
    "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
  }
},
"Filter": {
  "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be
used to match a set of resources by specific criteria.</p>",
  "refs": {
    "FilterList$member": null
  }
},
"FilterList": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the
results to those that match one
or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>AmiID</code>
with an optional operator to see subscriptions that match, partially match, or don't match a certain Amazon Machine
Image (AMI) ID.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>AmiID</code> </p> </li>
<li> <p> <code>InstanceID</code> </p> </li> <li> <p> <code>AccountID</code> </p> </li> <li> <p>
<code>Status</code> </p> </li> <li> <p> <code>Region</code> </p> </li> <li> <p>
<code>UsageOperation</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p>
<code>InstanceType</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p>
<code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>NotEqual</code>
</p> </li> </ul>",
    "ListLinuxSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value
pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional
operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The
valid names for this filter are:</p> <ul> <li> <p> <code>Subscription</code> </p> </li> </ul> <p>The valid
Operators for this filter are:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code>
</p> </li> <li> <p> <code>NotEqual</code> </p> </li> </ul>"
  }
},
"GetServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsResponse": {
  "base": null,

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"refs": {
}
},
"Instance": {
"base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
"refs": {
"InstanceList$member": null
}
},
"InstanceList": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesResponse$Instances":
"<p>An array that contains instance objects.</p>"
}
},
"InternalServerError": {
"base": "<p>An exception occurred with the service.</p>",
"refs": {
}
},
"LinuxSubscriptionsDiscovery": {
"base": null,
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": "<p>Describes if the discovery of Linux
subscriptions is enabled.</p>",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>"
}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux
subscriptions discovery. The settings
include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>"
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request

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increases.</p>",
  "refs": {
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionInstancesRequest$NextToken":
"<p>Token for the next set of results.</p>"
  }
},
"ListLinuxSubscriptionInstancesResponse": {
  "base": null,
  "refs": {
  }
},
"ListLinuxSubscriptionsRequest": {
  "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
  "refs": {
  }
},
"ListLinuxSubscriptionsRequestNextTokenString": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionsRequest$NextToken": "<p>Token for the next set of results.</p>"
  }
},
"ListLinuxSubscriptionsResponse": {
  "base": null,
  "refs": {
  }
},
"Operator": {
  "base": null,
  "refs": {
    "Filter$Operator": "<p>An operator for filtering results.</p>"
  }
},
"OrganizationIntegration": {
  "base": null,
  "refs": {
    "LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": "<p>Details if you have enabled resource
discovery across
your accounts in Organizations.</p>"
  }
},
"ProductCodeList": {

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"base": null,
"refs": {
  "Instance$ProductCode": "<p>The product code for the instance. For more information, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
}
},
"Status": {
  "base": null,
  "refs": {
    "GetServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being applied.</p>",
    "UpdateServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
  }
},
"String": {
  "base": null,
  "refs": {
    "Filter$Name": "<p>The type of name to filter by.</p>",
    "Instance$AccountID": "<p>The account ID which owns the instance.</p>",
    "Instance$AmiId": "<p>The AMI ID used to launch the instance.</p>",
    "Instance$InstanceID": "<p>The instance ID of the resource.</p>",
    "Instance$InstanceType": "<p>The instance type of the resource.</p>",
    "Instance$LastUpdatedTime": "<p>The time in which the last discovery updated the instance details.</p>",
    "Instance$Region": "<p>The Region the instance is running in.</p>",
    "Instance$Status": "<p>The status of the instance.</p>",
    "Instance$SubscriptionName": "<p>The name of the subscription being used by the instance.</p>",
    "Instance$UsageOperation": "<p>The usage operation of the instance. For more information, see For more information, see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i>.</p>",
    "InternalServerException$message": null,
    "ListLinuxSubscriptionInstancesResponse$NextToken": "<p>Token for the next set of results.</p>",
    "ListLinuxSubscriptionsResponse$NextToken":
    "<p>Token for the next set of results.</p>",
    "ProductCodeList$member": null,
    "StringMap$key": null,
    "StringMap$value": null,
    "Subscription$Name": "<p>The name of the subscription.</p>",
    "Subscription$Type": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>",
    "ThrottlingException$message": null,
    "ValidationException$message": null
  }
},
"StringList": {

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    "base": null,
    "refs": {
      "Filter$Values": "<p>One or more values for the name to filter by.</p>",
      "GetServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the
aggregated data for Linux subscriptions.</p>",
      "LinuxSubscriptionsDiscoverySettings$SourceRegions":
"<p>The Regions in which to discover data for Linux subscriptions.</p>",
      "UpdateServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the
aggregated data for Linux subscriptions.</p>"
    }
  },
  "StringListMemberString": {
    "base": null,
    "refs": {
      "StringList$member": null
    }
  },
  "StringMap": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service
settings current status.</p>",
      "UpdateServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions
service settings current status.</p>"
    }
  },
  "Subscription": {
    "base": "<p>An object which details a discovered Linux subscription.</p>",
    "refs": {
      "SubscriptionList$member": null
    }
  },
  "SubscriptionList": {
    "base": null,
    "refs": {

"ListLinuxSubscriptionsResponse$Subscriptions": "<p>An array that contains subscription objects.</p>"
    }
  },
  "ThrottlingException": {
    "base": "<p>The request was denied due to request throttling.</p>",
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  }

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},
"UpdateServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"ValidationException": {
  "base": "<p>The provided input is not valid. Try your request again.</p>",
  "refs": {
  }
}
}
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      }
    }
  ]
}

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},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "ap-northeast-1"
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-northeast-2.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "ap-northeast-2"
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-northeast-3.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "ap-northeast-3"
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-south-1.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "ap-south-1"
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",

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"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-southeast-1.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack":
false,
  "Region": "ap-southeast-1"
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-southeast-2.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "ap-southeast-2"
}
},
{
"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-southeast-3.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "ap-southeast-3"
}
},
{
"documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ca-central-1.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,

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    "UseDualStack": false,
    "Region": "ca-central-1"
  }
},
{
  "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-central-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-central-1"
  }
},
{
  "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-north-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-north-1"
  }
},
{
  "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-south-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-south-1"
  }
},
{
  "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {

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        "url": "https://license-manager.eu-west-1.amazonaws.com"
    }
},
"params":
{
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-1"
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {
    "endpoint": {
        "url": "https://license-manager.eu-west-2.amazonaws.com"
    }
},
"params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-2"
}
},
{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
    "endpoint": {
        "url": "https://license-manager.eu-west-3.amazonaws.com"
    }
},
"params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-3"
}
},
{
"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
    "endpoint": {
        "url": "https://license-manager.me-south-1.amazonaws.com"
    }
},
"params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "me-south-1"
}
}

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    }
  },
  {
    "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.sa-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "sa-east-1"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-2.amazonaws.com"
      }
    }
  }

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    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-east-2"
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-2"
    }
  },
  {
    "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-west-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-west-1"
    }
  }
},
{
  "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-west-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-west-1"
  }
},

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{
  "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-west-2"
  }
},
{
  "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
  "expect":
{
  "endpoint": {
    "url": "https://license-manager-fips.us-west-2.amazonaws.com"
  }
},
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-west-2"
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": true,
    "Region": "us-east-1"
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.api.aws"
    }
  },
},

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"params": {
  "UseFIPS": false,
  "UseDualStack": true,
  "Region": "us-east-1"
}
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "cn-north-1"
  }
},
{
  "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "cn-northwest-1"
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": true,
    "Region": "cn-north-1"
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
  "expect": {

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    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "cn-north-1"
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": true,
    "Region": "cn-north-1"
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-gov-east-1"
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-gov-east-1"
  }
}

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    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-west-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.api.aws"
      }
    }
  }
}

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    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",

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"expect": {
  "error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
  "UseFIPS": false,
  "UseDualStack": true,
  "Region": "us-iso-east-1"
}
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-isob-east-1.sc2s.gov"
    }
  },
  "params":
{
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "us-isob-east-1"
}
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": true,
    "Region": "us-isob-east-1"
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-isob-east-1.sc2s.gov"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-isob-east-1"
  }
},
{

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```

"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
  "error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
  "UseFIPS": false,
  "UseDualStack": true,
  "Region": "us-isob-east-1"
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
  "endpoint": {
    "url": "https://example.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Region": "us-east-1",
  "Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
  "endpoint": {
    "url": "https://example.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
  "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
  "UseFIPS": true,
  "UseDualStack": false,
  "Region": "us-east-1",
  "Endpoint": "https://example.com"
}
}

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    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack enabled",
      "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "Missing region",
      "expect": {
        "error": "Invalid Configuration: Missing Region"
      }
    }
  ],
  "version": "1.0"
}
{
  "testCases": [
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseDualStack": true,
        "UseFIPS": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseDualStack": false,
        "UseFIPS": true
      }
    }
  ]
}

```

```

    }
  },
  {
    "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseDualStack": true,
      "UseFIPS": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseDualStack": false,
      "UseFIPS": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint":
{
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseDualStack": true,
      "UseFIPS": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    }
  }
}

```

```

    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseDualStack": false,
    "UseFIPS": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseDualStack": true,
    "UseFIPS": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseDualStack": false,
    "UseFIPS": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region":
"us-iso-east-1",
    "UseDualStack": true,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

```

```

"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
  }
},
"params": {
  "Region": "us-iso-east-1",
  "UseDualStack": false,
  "UseFIPS": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
  "error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
  "Region": "us-iso-east-1",
  "UseDualStack": true,
  "UseFIPS": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
  }
},
"params": {
  "Region": "us-iso-east-1",
  "UseDualStack": false,
  "UseFIPS": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
  }
},
"params": {
  "Region": "us-east-1",
  "UseDualStack": true,
  "UseFIPS": true
}
}

```

```

},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect":
{
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
  }
},
  "params": {
    "Region": "us-east-1",
    "UseDualStack": false,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": true,
    "UseFIPS": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": false,
    "UseFIPS": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",

```

```

    "UseDualStack": true,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": false,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": true,
    "UseFIPS": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": false,
    "UseFIPS": false
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  }
}

```



```

    },
    "params": {
      "Region": "us-east-1",
      "UseDualStack": false,
      "UseFIPS": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseDualStack": false,
      "UseFIPS": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseDualStack": true,
      "UseFIPS": false,
      "Endpoint": "https://example.com"
    }
  }
],
"version": "1.0"
}
{
  "version": "1.0",
  "examples": {
  }
}
{
  "pagination": {
    "ListIdentityProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    }
  },

```

```

"ListInstances": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "InstanceSummaries"
},
"ListProductSubscriptions": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "ProductUserSummaries"
},
"ListUserAssociations": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "InstanceUserSummaries"
}
}
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": true,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

```

```

    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",

```

```

        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties":
                },
                "headers": {}
            },
            {
                "type": "endpoint"
            }
        ]
    }
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ]
}

```

```

    },
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    },
    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            },
            "supportsDualStack"
          ]
        }
      ]
    }
  ],
  "type": "tree",

```

```

    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ],
    {
      "conditions": [],
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
      "type": "error"
    }
  ],
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              true,
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ]
      }
    ]
  }
]

```

```

        ]
      }
    ]
  }
],

"type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  {
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
  }
],
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,

```

```

        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                }
            ],

            "supportsDualStack"
                ]
            }
        ]
    },
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    {
        "conditions": [],
        "error":
"DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
}
}

```



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```
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-user-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "serviceFullName": "AWS License Manager User Subscriptions",
    "serviceId": "License Manager User Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-user-subscriptions",
    "uid": "license-manager-user-subscriptions-2018-05-10"
  },
  "operations": {
    "AssociateUser": {
      "name": "AssociateUser",
      "http": {
        "method": "POST",
        "requestUri": "/user/AssociateUser",
        "responseCode": 200
      }
    }
  }
}
```

```

},
"input":{"shape":"AssociateUserRequest"},
"output":{"shape":"AssociateUserResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"idempotent":true
},
"DeregisterIdentityProvider":{
"name":"DeregisterIdentityProvider",
"http:{
  "method":"POST",
  "requestUri":"/identity-provider/DeregisterIdentityProvider",
  "responseCode":200
},
"input":{"shape":"DeregisterIdentityProviderRequest"},
"output":{"shape":"DeregisterIdentityProviderResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"idempotent":true
},
"DisassociateUser":{
"name":"DisassociateUser",
"http:{
  "method":"POST",
  "requestUri":"/user/DisassociateUser",
  "responseCode":200
},
"input":{"shape":"DisassociateUserRequest"},
"output":{"shape":"DisassociateUserResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},

```

```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",

```

```

    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},

```

```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},

  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"StopProductSubscription":{
  "name":"StopProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},

    {"shape":"AccessDeniedException"}
  ]
},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",

```

```

"http":{
  "method":"POST",
  "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
  "responseCode":200
},
"input":{"shape":"UpdateIdentityProviderSettingsRequest"},
"output":{"shape":"UpdateIdentityProviderSettingsResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"AccessDeniedException"}
],
"idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{
      "DirectoryId":{"shape":"String"}
    }
  },
  "AssociateUserRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "AssociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{

```

```

    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
},
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"DisassociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"DisassociateUserResponse":{

```

```

"type":"structure",
"required":["InstanceUserSummary"],
"members":{
  "InstanceUserSummary":{"shape":"InstanceUserSummary"}
}
},
"Filter":{
"type":"structure",
"members":{
  "Attribute":{"shape":"String"},
  "Operation":{"shape":"String"},
  "Value":{"shape":"String"}
}
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"IdentityProvider":{
"type":"structure",
"members":{
  "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
},
"union":true
},
"IdentityProviderSummary":{
"type":"structure",
"required":[
  "IdentityProvider",
  "Product",
  "Settings",
  "Status"
],
"members":{
  "FailureMessage":{"shape":"String"},
  "IdentityProvider":{"shape":"IdentityProvider"},
  "Product":{"shape":"String"},
  "Settings":{"shape":"Settings"},
  "Status":{"shape":"String"}
}
},
"IdentityProviderSummaryList":{
"type":"list",
"member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
"type":"structure",
"required":[

```



```

    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
    "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{"shape":"String"},
    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},

```

```

"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{"shape":"InstanceSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListProductSubscriptionsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Product":{"shape":"String"}
  }
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},

```

```

    "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId"
  ],
  "members":{
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListUserAssociationsResponse":{
  "type":"structure",

"members":{
  "InstanceUserSummaries":{"shape":"InstanceUserSummaryList"},
  "NextToken":{"shape":"String"}
}
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "SubscriptionEndDate":{"shape":"String"},
    "SubscriptionStartDate":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},

```

```

"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "error":{
    "statusCode":404,
    "senderFault":true
  },
  "exception":true
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-([0-9a-z]{8})([0-9a-z]{17})$"
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
  ]
}

```

```

    ],
    "members":{
      "SecurityGroupId":{"shape":"SecurityGroup"},
      "Subnets":{"shape":"SettingsSubnetsList"}
    }
  },
  "SettingsSubnetsList":{
    "type":"list",
    "member":{"shape":"Subnet"},
    "min":1
  },
  "StartProductSubscriptionRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product",
      "Username"
    ]
  },
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ]
},
"members":{
  "Domain":{"shape":"String"},
  "IdentityProvider":{"shape":"IdentityProvider"},
  "Product":{"shape":"String"},
  "Username":{"shape":"String"}
}
},
"StopProductSubscriptionResponse":{
  "type":"structure",

```

```

"required":["ProductUserSummary"],
"members":{
  "ProductUserSummary":{"shape":"ProductUserSummary"}
}
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "UpdateSettings"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "UpdateSettings":{"shape":"UpdateSettings"}
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[

```

```

    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{"shape":"Subnets"},
    "RemoveSubnets":{"shape":"Subnets"},
    "SecurityGroupId":{"shape":"SecurityGroup"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}
}

```

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```
{
  "pagination": {
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
    }
  }
}
```

```

    "type": "String"
  },
  "UseDualStack": {
    "builtIn": "AWS::UseDualStack",
    "required": true,
    "default": false,
    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
    "type": "Boolean"
  },
  "UseFIPS": {
    "builtIn": "AWS::UseFIPS",
    "required": true,
    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {
    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          }
        ]
      }
    ]
  }
]

```

```

        true
      ]
    }
  ],
  "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
  "type": "error"
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "endpoint": {
        "url": {
          "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}
],
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {

```

```

"conditions": [
  {
    "fn": "isSet",
    "argv": [
      {
        "ref": "Region"
      }
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
            ],
          }
        ],
        "type": "boolean",
        "value": true
      }
    ]
  },
  {
    "fn": "booleanEquals",
    "argv": [
      {
        "ref": "UseDualStack"
      },
    ],
    "type": "boolean",
    "value": true
  }
],

```

true

```

"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsFIPS"
            ]
          }
        ]
      },
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsDualStack"
            ]
          }
        ]
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

```

```

    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
]
}
]
},
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
  "type": "error"
}
]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ]
},
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              }
            ]
          }
        ]
      }
    ],
    "supportsFIPS"
  }
]
},

```



```

        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url":
"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    }
  ]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [

```

```

    {
      "fn": "booleanEquals",
      "argv":
    [
      true,
      {
        "fn": "getAttr",
        "argv": [
          {
            "ref": "PartitionResult"
          },
          "supportsDualStack"
        ]
      }
    ]
  },
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    }
  ],
  {
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
  }
],
{
  "conditions": [],

```



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Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format

backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT



syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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```
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The

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## 1.506 jaxb-core 4.0.4

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```

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```
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/media/MediaQuery.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/ParserUtils.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/AbstractCSSRuleImpl.java
*
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/format/CSSFormat.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/PrefixAttributeConditionImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/LocatableImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/ConditionFactoryImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSStyleDeclarationImpl.java
```

\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/dom/CSSMediaRuleImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/dom/DOMExceptionImpl.java  
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\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/ExceptionResource.java  
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\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/dom/CSSFontFaceRuleImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/SelectorListImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/selectors/LangConditionImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/selectors/PseudoElementSelectorImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/sac/ConditionFactoryExt.java  
\*  
/opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/selectors/ConditionalSelectorImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/Locatable.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/selectors/SelectorFactoryImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/format/CSSFormatable.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-jar/com/steadystate/css/parser/selectors/CharacterDataSelectorImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-



jar/com/steadystate/css/dom/RGBColorImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/SACParser.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/sac/DocumentHandlerAdapter.java  
\*  
/opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/OneOfAttributeConditionImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/dom/RectImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/dom/CSSOMObjectImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/DirectAdjacentSelectorImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/PseudoClassConditionImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/LexicalUnitImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/dom/CSSUnknownRuleImpl.java  
\*  
/opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/dom/CounterImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/sac/ConditionFactoryAdapter.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/BeginHyphenAttributeConditionImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/CSSOMParser.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/ElementSelectorImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/AbstractSACParser.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/HandlerBase.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/SubstringAttributeConditionImpl.java  
\*  
/opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/util/ThrowCssExceptionHandler.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/sac/DocumentHandlerExt.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/sac/SelectorFactoryAdapter.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/parser/selectors/SuffixAttributeConditionImpl.java  
\* /opt/cola/permits/1904594577\_1707372367.4405427/0/cssparser-0-9-30-sources-  
jar/com/steadystate/css/dom/CSSOMObject.java

```
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/SACMediaListImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSStyleSheetImpl.java
*
/opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/AttributeConditionImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSImportRuleImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSStyleRuleImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/AndConditionImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/GeneralAdjacentSelectorImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/util/Output.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/ChildSelectorImpl.java
*
/opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSCharsetRuleImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSPageRuleImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/userdata/UserDataConstants.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/LocatorImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/dom/CSSRuleListImpl.java
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-
jar/com/steadystate/css/parser/selectors/ClassConditionImpl.java
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```

Found in path(s):

```
* /opt/cola/permits/1904594577_1707372367.4405427/0/cssparser-0-9-30-sources-jar/META-
INF/maven/net.sourceforge.cssparser/cssparser/pom.xml
```

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- \* <https://github.com/eclipse-ee4j/metro-policy>
- \* <https://github.com/eclipse-ee4j/metro-wsit>
- \* <https://github.com/eclipse-ee4j/metro-mimepull>
- \* <https://github.com/eclipse-ee4j/metro-ws-test-harness>
- \* <https://github.com/eclipse-ee4j/metro-package-rename-task>
- \* <https://github.com/eclipse-ee4j/metro-jax-ws>
- \* <https://github.com/eclipse-ee4j/metro-saaj>
- \* <https://github.com/eclipse-ee4j/metro-jwsdp-samples>
- \* <https://github.com/eclipse-ee4j/jax-rpc-ri>
- \* <https://github.com/eclipse-ee4j/jaxr-ri>

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This project leverages the following third party content.

addressing.xml Version: 2004/10 (n/a)

- \* License: W3C
- \* Project: <https://www.w3.org/Submission/ws-addressing/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

ant-launcher (1.10.2)

- \* License:

Apache-2.0 AND SAX-PD AND W3C

\* Project: <https://ant.apache.org/>

\* Source:

<http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

Apache Ant (1.6)

\* License: Apache-1.1

\* Project: <https://ant.apache.org/>

\* Source: <https://repo1.maven.org/maven2/ant/ant/1.6/ant-1.6-sources.jar>

Apache Ant (1.10.2)

\* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

commons-logging (1.1.2)

\* License: Apache-2.0

\* Project: <https://commons.apache.org/proper/commons-logging/>

\* Source:

<http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar>

JUnit (4.12)

\* License: Eclipse Public License

maven-core (3.5.2)

\* License: Apache-2.0

maven-plugin-annotations (3.5.1)

\* License: Apache-2.0

\* Project:

<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

\* Source:

<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

maven-plugin-api  
(3.5.2)

\* License: Apache-2.0

\* Project: <https://maven.apache.org/>

\* Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

maven-resolver-api (1.1.1)

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maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

\* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

\* License: Oasis Style

\* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

\* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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stax2-api (4.1)

\* License: Pending

\* Project: <https://github.com/FasterXML/stax2-api>

\* Source:

<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

\* License: Apache-2.0 AND MIT

\* Project: <https://testng.org/doc/index.html>

\*

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woodstox-core-asl (4.4.1)

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woodstox-core-asl (5.1.0)

\* License: Pending

\* Project: <https://github.com/FasterXML/woodstox>

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ws-addr.wsd (1.0)

- \* License: W3C
- \* Project: <https://www.w3.org/2005/08/addressing/>
- \* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

- \* License: Oasis Style
- \* Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

wscor.xsd (1.0)

- \* License: OASIS Style

wscor.xsd (1.1)

- \* License: Oasis (Custom)
- \* Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>
- \* Source:  
<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wsm Version: 2005/02 (n/a)

- \* License: Oasis (Custom)
- \* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>
- \* Source:  
<http://schemas.xmlsoap.org/ws/2005/02/rm/wsm.xsd>; <http://schemas.xmlsoap.org/ws/2005/02/rm/wsm-policy.xsd>

wsm.xsd  
(1.2)

- \* License: Oasis

wstx-wsat.xsd (1.1)

- \* License: Oasis (Custom)

xmlsec (1.5.8)

- \* License: Apache-2.0
- \* Project: <http://santuario.apache.org/>
- \* Source:  
<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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- \* <https://github.com/eclipse-ee4j/jaxb-dtd-parser>
- \* <https://github.com/eclipse-ee4j/jaxb-fi>
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- \* License: MIT License

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- \* License: Custom license based on Apache 1.1

file-management (3.0.0)

- \* License: Apache-2.0
- \* Project: <https://maven.apache.org/shared/file-management/>
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<https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/>

JUnit (4.12)

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maven-compat (3.5.2)

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\* Project: <https://maven.apache.org/ref/3.5.2/maven-compat/>

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2>

maven-core (3.5.2)

\* License: Apache-2.0

\* Project: <https://maven.apache.org/ref/3.5.2/maven-core/index.html>

\* Source: <https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2>

maven-plugin-annotations (3.5)

\* License: Apache-2.0

\* Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/>

\* Source:

<https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations>

maven-plugin-api (3.5.2)

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maven-resolver-api (1.1.1)

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maven-resolver-transport-file (1.1.1)

\* License: Apache-2.0  
\* Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>  
\* Source:  
<https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file>

maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

\* License: Apache-2.0

\* Source:

<https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2>

OSGi Service Platform Core Companion Code (6.0)

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plexus-archiver (3.5)

\* License: Apache-2.0

\* Project: <https://codehaus-plexus.github.io/plexus-archiver/>

\* Source: <https://github.com/codehaus-plexus/plexus-archiver>

plexus-io (3.0.0)

\* License: Apache-2.0

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\* Project: <http://www.megginson.com/downloads/SAX/>

\* Source: [http://sourceforge.net/project/showfiles.php?group\\_id=29449](http://sourceforge.net/project/showfiles.php?group_id=29449)

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\* Project: <https://testng.org/doc/index.html>

\* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

\* License: Pending

\* Project: <https://maven.apache.org/wagon/>

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<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

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## Source Code

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\* <https://github.com/eclipse-ee4j/metro-xmlstreambuffer>

- \* <https://github.com/eclipse-ee4j/metro-policy>
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- \* <https://github.com/eclipse-ee4j/metro-jwsdp-samples>
- \* <https://github.com/eclipse-ee4j/jax-rpc-ri>
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addressing.xml Version: 2004/10 (n/a)

- \* License: W3C
- \* Project: <https://www.w3.org/Submission/ws-addressing/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

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\* Project:

<https://javaee.github.io/grizzly/httpserverframework.html>

\* Source: <https://github.com/javaee/grizzly/tree/master/modules/http>

jaxb2-basics (0.6.4)

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\* Source: <https://github.com/highsource/jaxb2-basics>

jaxr-impl (1.0.8)

\* License: CDDL-1.0

\* Project: <https://www.oracle.com/technetwork/java/jaxr-138137.html>

JUnit (4.12)

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junit (4.13.0)

\* License: EPL-1.0

maven-core (3.5.2)

\* License: Apache-2.0

maven-plugin-annotations (3.5.1)

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\* Project:

<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

\* Source:

<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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\* License: Apache-2.0

\* Project: <https://maven.apache.org/>

\* Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>

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maven-settings

(3.5.2)

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\* Project: <https://codehaus-cargo.github.io/cargo/Home.html>

\* Source:

<https://github.com/codehaus-cargo/cargo/releases/tag/codehaus-cargo-1.7.3>

maven/mavencentral/org.relaxng/jing/20181222 (n/a)

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\* Project: <http://www.thaiopensource.com/relaxng/jing.html>

\* Source:

<https://repo1.maven.org/maven2/org/relaxng/jing/20181222/jing-20181222-sources.jar>

mex.xsd Version: 2004/09 (n/a)

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\* Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

\* Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

MQ JAXM-API (5.1)



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\* Project: <https://javaee.github.io/openmq/>

\* Source:

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org.apache.santuario:xmlsec:2.1.5 (2.1.5)

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<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

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ws-addr.wsd (1.0)

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- Project: <https://www.w3.org/2005/08/addressing/>
- \* Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

- \* License: Oasis Style
- \* Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>
- \* Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>

wscor.xsd (1.0)

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- \* Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>
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<http://docs.oasis-open.org/ws-tx/wscor/2006/06/wstx-wscor-1.1-schema-200701.xsd>

wsrn Version: 2005/02 (n/a)

- \* License: Oasis (Custom)
- \* Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>
- \* Source:  
<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn-policy.xsd>

wsrn.xsd (1.2)

- \* License: Oasis

wstx-wsat.xsd (1.1)

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xerces:xercesImpl:2.12.1 (2.12.1)

\* License: Apache-2.0 AND W3C

xmlsec (1.5.8)

\* License: Apache-2.0

\* Project: <http://santuario.apache.org/>

\* Source:

<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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# 1.513 mock 5.1.0

## 1.513.1 Available under license :

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# 1.514 perl 5.32.1-4+deb11u3

## 1.514.1 Available under license :

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?RCS: \$Id: d\_endservent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_endservent\_r endservent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
uthreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_endservent\_r:

?S: This variable conditionally defines the HAS\_ENDSERVENT\_R symbol,

?S: which indicates to the C program that the endservent\_r()

?S: routine is available.

?S:.

?S:endservent\_r\_proto:

?S: This variable encodes the prototype of endservent\_r.

?S: It is zero if d\_endservent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endservent\_r

?S: is defined.

?S:.

?C:HAS\_ENDSERVENT\_R:

?C: This symbol, if defined, indicates that the endservent\_r routine

?C: is

available to endservent re-entrantly.

?C:.

?C:ENDSERVENT\_R\_PROTO:

?C: This symbol encodes the prototype of endservent\_r.

?C: It is zero if d\_endservent\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endservent\_r

?C: is defined.

?C:.

?H:#\$d\_endservent\_r HAS\_ENDSERVENT\_R /\*\*/

?H:#define ENDSERVENT\_R\_PROTO \$endservent\_r\_proto /\*\*/



```

?H:
?T:try hdrs d_endservent_r_proto
: see if endservent_r exists
set endservent_r d_endservent_r
eval $inlibc
case "$d_endservent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_endservent_r_proto:$usethreads" in
":define") d_endservent_r_proto=define
set d_endservent_r_proto endservent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_endservent_r_proto" in
define)
case "$endservent_r_proto" in
"|0) try='int endservent_r(struct servent_data*);'
./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
esac
case "$endservent_r_proto" in
"|0) try='void endservent_r(struct
servent_data*);'
./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
esac
case "$endservent_r_proto" in
"|0) d_endservent_r=undef
endservent_r_proto=0
echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
* ) case "$endservent_r_proto" in
REENTRANT_PROTO*) ;;
*) endservent_r_proto="REENTRANT_PROTO_${endservent_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "endservent_r has no prototype, not using it." >&4 ;;
esac
d_endservent_r=undef
endservent_r_proto=0
;;
esac
;;
*) endservent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_endservent\_r.U

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?RCS:

?RCS:

?X:

?X: This unit is just a quick shorthand for the compile command

?X: to be used in all the other metaconfig units.

?X:

?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs

?MAKE: -pick add \$@ %<

?LINT:define compile compile\_ok

?V:compile compile\_ok mc\_file

?S:compile:

?S: This shell variable is used internally

by Configure to provide

?S: a convenient shorthand for the typical compile command, namely

?S: \$cc \$optimize \$ccflags \$ldflags -o \$1 \$1.c \$libs > /dev/null 2>&1

?S: Note that the output filename does not include the \_exe

?S: extension. Instead we assume that the linker will be

?S: "helpful" and automatically appending the correct suffix.

?S: OS/2 users will apparently need to supply the -Zexe flag to

?S: get this behavior.

?S:

?S: To use this variable, say something like:

?S: echo 'int main() { exit(0); }' > try.c

?S: set try

?S: if eval \$compile; then

?S: echo "success" # and do whatever . . .

?S: else

?S: echo "failure" # and do whatever . . .

?S: fi

?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them  
 ?S: in \$\*, e.g.  
 ?S: set try -DTRY\_THIS\_FLAG  
 ?S:.  
 ?S:compile\_ok:  
 ?S: This shell variable is used internally by Configure to provide  
 ?S: a convenient shorthand for the typical compile command that you  
 ?S: expect to work ok. It is the same as \$compile,  
 except we  
 ?S: deliberately let the user see any error messages.  
 ?S:.  
 : define a shorthand compile call  
 compile='  
 mc\_file=\$1;  
 shift;  
 \$cc -o \${mc\_file} \$optimize \$ccflags \$ldflags \$\* \${mc\_file}.c \$libs > /dev/null 2>&1;'  
 : define a shorthand compile call for compilations that should be ok.  
 compile\_ok='  
 mc\_file=\$1;  
 shift;  
 \$cc -o \${mc\_file} \$optimize \$ccflags \$ldflags \$\* \${mc\_file}.c \$libs;'

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Compile.U

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?RCS: \$Id: perl5.U,v \$  
 ?RCS:  
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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?RCS: \$Log: perl5.U,v \$  
 ?RCS:  
 ?X:  
 ?X: The purpose of this unit is to locate a previously installed  
 ?X: version of perl5 suitable for running inc\_version\_list.U.  
 ?X: We check for 5.005 and later because inc\_version\_list is  
 ?X: irrelevant for earlier versions.  
 ?X:  
 ?MAKE:perl5: path\_sep binexp test sed exe\_ext  
 ?MAKE: -pick add \$@ %<  
 ?Y:TOP  
 ?S:perl5:  
 ?S: This variable contains the full path (if any) to a previously  
 ?S: installed perl5.005 or later suitable for running the script

```

?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
/g"; do
: Check if this perl is recent and can load a simple module
if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
perl5=$tdir/perl
break;
elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
perl5=$tdir/perl5
break;
fi
done
;;
*) perl5="$perl5"
;;
esac
case "$perl5" in
") echo "None found. That's ok.";;
*) echo "Using $perl5." ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/installdirs/perl5.U

```

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?RCS:

?X:

?X: This unit produces a variable that is intended to be eval'ed in

?X: order to define/undefine a symbol. A consistency check is made

?X: regarding any previous value and a warning is issued if there

?X: is any discrepancy.

?X:

?X: To use it, say:

?X: set d\_siginfo\_si\_errno siginfo\_t int si\_errno \$d\_sigaction signal.h

?X: eval \$hasfield\_t;

?X:

?MAKE:Hasfield\_t: test Compile rm\_try Setvar

?MAKE: -pick add \$@ %<

```

?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
    case
"$1" in
$define) echo "#include <$2>";;
    esac ;
    shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
    val="$define";
else
    val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/Hasfield_t.U

```

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?RCS:

?RCS: \$Log: nis.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:17:38 ram

?RCS: patch61: ensure suitable defaults for hostcat and friends

?RCS:

?RCS: Revision 3.0.1.2 1995/03/21 08:48:34 ram

?RCS: patch52: continued fix for NeXT NIS/NetInfo handling

?RCS:

```

?RCS: Revision 3.0.1.1 1995/02/15 14:16:23 ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file. This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file. This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file. This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
if $test -f /usr/etc/nibindd; then
    echo
    " "
    echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
    echo " "
    rp='Do you get the passwd file via NetInfo?'
    dflt=y
    case "$passcat" in
    nidump*) ;;
    *) ;;
    *) dflt=n;;
    esac
    ./myread
    case "$ans" in
    y*) passcat='nidump passwd .'
@if groupcat
    echo "(Assuming /etc/group is also distributed.)"
    groupcat='nidump group .'

```

```

@end
;;
*) echo "You told me, so don't blame me."
case "$passcat" in
nidump*) passcat="
@if groupcat
groupcat=";;
@end
esac
@if groupcat
echo "(Assuming /etc/group is handled the same way.)"
@end
;;
esac
@end
@if hostcat
echo " "
rp='Do you get the hosts file via NetInfo?'
dflt=y
case "$hostcat" in
nidump*) ;;
") ;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
y*) hostcat='nidump hosts .';;
*) case "$hostcat" in
nidump*) hostcat=";;
esac
;;
esac
@end
fi
@if passcat || groupcat
case "$passcat" in
nidump*) ;;
*)
case "$passcat" in
*yecat*) dflt=y;;
")
if $contains '\+' /etc/passwd >/dev/null 2>&1; then
dflt=y
else
dflt=n
fi;;
*) dflt=n;;
esac

```

```

echo " "
rp='Are you getting the passwd file via yellow pages?'
./myread
case "$ans" in
y*) passcat='ypcat passwd'
@if groupcat
echo "(Assuming /etc/group is also distributed.)"
groupcat='ypcat group'
@end
;;
*) passcat='cat /etc/passwd'
@if groupcat
echo "(Assuming /etc/group is also local.)"
groupcat='cat /etc/group'
@end
;;
esac
;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
case "$hostcat" in
*y*cat*) dflt=y;;
") if $contains '\+' /etc/passwd >/dev/null 2>&1; then
dflt=y
else
dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the hosts file via yellow pages?'
./myread
case "$ans" in
y*) hostcat='ypcat hosts';;
*) hostcat='cat /etc/hosts';;
esac
;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':
$test -f /etc/hosts && hostcat='cat

```



```

/etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
$test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
$test -f /etc/passwd && passcat='cat /etc/passwd';;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/nis.U

```

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?RCS:

?MAKE:d\_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fdclose:

?S: This variable conditionally defines the HAS\_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS\_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d\_fdclose HAS\_FDCLOSE /\*\*/

?H:.

?LINT:set d\_fdclose

: see if fdclose exists

set fdclose d\_fdclose

eval \$inlibc

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fdclose.U

```

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?RCS: \$Id: d\_gethid.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_gethid.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_gethid: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_gethid:

?S: This variable conditionally defines HAS\_GETHOSTID if gethostid() is

?S: available to get the host id.

?S:.

?C:HAS\_GETHOSTID (GETHOSTID):

?C: This symbol, if defined, indicates that the gethostid system call is

?C: available to get the host id.

?C:.

?H:#\$d\_gethid HAS\_GETHOSTID /\*\*/

?H:.

?LINT:set

d\_gethid

: see if gethid exists

set gethostid d\_gethid

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_gethid.U

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?RCS: \$Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp \$

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Typedef.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 13:42:07 ram

?RCS: patch56: added backslash escapes within evals to prevent space problems

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:01:16 ram

?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:05:14 ram

?RCS: patch32: created

?RCS:

?X:

?X: This unit checks for the definition of a given typedef.

?X:

?X: To use it, say:

?X: set typedef  
 val\_t default [includes]

?X: eval \$typedef

?X:

?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread

?MAKE: -pick add \$@ %<

?LINT:define typedef

?LINT:define typedef\_ask

?V:typedef typedef\_ask

?S:typedef:

?S: This shell variable is used internally by Configure to check  
 whether a given typedef is defined or not. A typical use is:

?S: set typedef val\_t default [includes]

?S: eval \$typedef

?S: That will return val\_t set to default if the typedef was not found,  
 to typedef otherwise. If no includes are specified, look in sys/types.h.

?S:.

?S:typedef\_ask:

?S: This shell variable is used internally by Configure to check  
 whether a given typedef is defined or not. If it is not defined,  
 this will call the ./myread script to prompt for an answer.  
 It is intended to be used to avoid unnecessary prompts.  
 A typical use is

?S: rp="What is the type for file position used by fsetpos()?"

?S: set fpos\_t fpostype long stdio.h sys/types.h

?S: eval \$typedef\_ask

?S: This  
 will set fpostype=fpos\_t, if fpos\_t is available. Otherwise  
 it will call myread with a default of 'long', and a prompt of \$rp.

?S:.

?T:type var def inclist varval inc

?F:!temp.c

: define an is-a-typedef? function

typedef='type=\$1; var=\$2; def=\$3; shift; shift; shift; inclist=\$@;

case "\$inclist" in

"" ) inclist="sys/types.h";;

esac;

eval "varval=\\$\$var";

case "\$varval" in

"" )

\$rm -f temp.c;

```

for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
done;
?X: Maybe it's a #define instead of a typedef.
echo "#ifndef $type" >> temp.c;
echo "printf(\"We have $type\");" >> temp.c;
echo "#endif" >> temp.c;
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
else
  eval "$var=\$def";
fi;
$rm -f temp.?;;
*) eval "$var=\$varval";
esac'

```

?X: Originally, I eval'd \$typedef and then checked the results against  
?X: \$type. Unfortunately, it then became complicated to check  
?X: whether you are re-using  
an old config.sh value, and the logic got  
?X: so convoluted it became easier to just copy the function above  
?X: and alter it slightly. A.D. 3/1998  
: define an is-a-typedef? function that prompts if the type is not available.

```

typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"" ) inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"" )
$rm -f temp.c;
for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
done;
?X: Maybe it's a #define instead of a typedef.
echo "#ifndef $type" >> temp.c;
echo "printf(\"We have $type\");" >> temp.c;
echo "#endif" >> temp.c;
$cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
echo " " ;
echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
else
  echo "$type NOT found." >&4;
  dflt="\$def";

```

```
./myread ;
eval "$var=\$ans";
fi;
$rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

#### Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/Typedef.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strtold: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtold:

?S: This variable conditionally defines the HAS\_STRTOLD symbol, which

?S: indicates to the C program that the strtold() routine is available.

?S:.

?C:HAS\_STRTOLD:

?C: This symbol, if defined, indicates that the strtold routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtold HAS\_STRTOLD /\*\*/

?H:.

?LINT:set d\_strtold

: see if strtold exists

set strtold d\_strtold

eval \$inlibc

#### Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strtold.U
```

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?RCS: \$Id: i\_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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```

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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:20 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
?C: in <grp.h> contains gr_passwd.
?C:.
?H:#$i_grp I_GRP /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr

case "$i_grp" in
$define)
xxx=`./findhdr grp.h`
$cppstdin $cppflags $cppminus < $xxx >$$h

if $contains 'gr_passwd' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"

```

```
fi
set d_grpasswd
eval $setvar

$rm -f $$h
;;
*)
val="$undef";
set d_grpasswd; eval $setvar
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_grp.U
```

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?RCS:

?MAKE:d\_socketmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_socketmark:

?S: This variable conditionally defines the HAS\_SOCKETMARK symbol, which

?S: indicates to the C program that the socketmark() routine is available.

?S:.

?C:HAS\_SOCKETMARK:

?C: This symbol, if defined, indicates that the socketmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d\_socketmark HAS\_SOCKETMARK /\*\*/

?H:.

?LINT:set d\_socketmark

: see if socketmark exists

set socketmark d\_socketmark

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_socketmark.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_gethostbyname\_r.U,v ORCS:

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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
?RCS:  
?MAKE:d\_gethostbyname\_r gethostbyname\_r\_proto: Inlibc Protochk Hasproto \  
i\_systypes usethreads i\_netdb extern\_C  
?MAKE: -pick add \$@ %<  
?S:d\_gethostbyname\_r:  
?S: This variable conditionally defines the HAS\_GETHOSTBYNAME\_R symbol,  
?S: which indicates to the C program that the gethostbyname\_r()  
?S: routine is available.  
?S:.  
?S:gethostbyname\_r\_proto:  
?S: This variable encodes the prototype of gethostbyname\_r.  
?S: It is zero if d\_gethostbyname\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_gethostbyname\_r  
?S: is defined.  
?S:.  
?C:HAS\_GETHOSTBYNAME\_R:  
?C: This symbol, if defined, indicates  
that the gethostbyname\_r routine  
?C: is available to gethostbyname re-entrantly.  
?C:.  
?C:GETHOSTBYNAME\_R\_PROTO:  
?C: This symbol encodes the prototype of gethostbyname\_r.  
?C: It is zero if d\_gethostbyname\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_gethostbyname\_r  
?C: is defined.  
?C:.  
?H:#\$d\_gethostbyname\_r HAS\_GETHOSTBYNAME\_R /\*\*/  
?H:#define GETHOSTBYNAME\_R\_PROTO \$gethostbyname\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_gethostbyname\_r\_proto  
: see if gethostbyname\_r exists  
set gethostbyname\_r d\_gethostbyname\_r  
eval \$inlibc  
case "\$d\_gethostbyname\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_netdb netdb.h"  
case "\$d\_gethostbyname\_r\_proto:\$usethreads" in  
":define") d\_gethostbyname\_r\_proto=define  
set d\_gethostbyname\_r\_proto gethostbyname\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_gethostbyname\_r\_proto" in



```

define)
case "$gethostbyname_r_proto" in
"|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
hostent**, int*);'
./prochck "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
esac
case "$gethostbyname_r_proto" in
"|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
./prochck "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
esac
case "$gethostbyname_r_proto" in
"|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
./prochck "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
esac
case "$gethostbyname_r_proto" in
"|0) d_gethostbyname_r=undef
gethostbyname_r_proto=0
echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
*) case "$gethostbyname_r_proto" in
REENTRANT_PROTO*) ;;
*) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
esac
d_gethostbyname_r=undef
gethostbyname_r_proto=0
;;
esac
;;
*) gethostbyname_r_proto=0
;;
esac

```

#### Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d\_gethostbyname\_r.U

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?RCS:

?MAKE:d\_unsetenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_unsetenv:

?S: This variable conditionally defines the HAS\_UNSETENV symbol, which

?S: indicates to the C program that the unsetenv () routine is available.

?S:.

?C:HAS\_UNSETENV:

?C: This symbol, if defined, indicates that the unsetenv () routine is

?C: available for use.

?C:.

?H:#\$d\_unsetenv HAS\_UNSETENV /\*\*/

?H:.

?LINT:set d\_unsetenv

: see if unsetenv exists

set unsetenv d\_unsetenv

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_unsetenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_usleep.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_usleep.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:53 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_usleep: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_usleep:

?S: This variable conditionally defines HAS\_USLEEP if usleep() is

?S: available to do high granularity sleeps.

?S:.

?C:HAS\_USLEEP (USLEEP):

?C: This symbol, if defined, indicates that the usleep routine is

?C: available to let the process sleep on a sub-second accuracy.

?C:.

?H:#\$d\_usleep  
HAS\_USLEEP /\*\*/  
?H:.  
?LINT:set d\_usleep  
: see if usleep exists  
set usleep d\_usleep  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_usleep.U

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?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_fstatfs : Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_fstatfs:  
?S: This variable conditionally defines the HAS\_FSTATFS symbol, which  
?S: indicates to the C program that the fstatfs() routine is available.  
?S:.  
?C:HAS\_FSTATFS:  
?C: This symbol, if defined, indicates that the fstatfs routine is  
?C: available to stat filesystems by file descriptors.  
?C:.  
?H:#\$d\_fstatfs HAS\_FSTATFS /\*\*/  
?H:.  
?LINT:set d\_fstatfs  
: see if fstatfs exists  
set fstatfs d\_fstatfs  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fstatfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_crypt.U,v \$  
?RCS:  
?RCS: Copyright (c) 2002 Jarkko Hietaniemi  
?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
?MAKE:i\_crypt: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_crypt:  
?S: This variable conditionally defines the I\_CRYPT symbol, and indicates  
?S: whether a C program should include <crypt.h>.  
?S:.  
?C:I\_CRYPT:  
?C: This symbol, if defined, indicates that <crypt.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_crypt I\_CRYPT /\*\*/  
?H:.  
?LINT:set i\_crypt  
: see if this is a crypt.h system  
set crypt.h i\_crypt  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/i\_crypt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_strerror.U,v \$  
?RCS: Revision 3.0.1.3 1994/05/13 15:20:27 ram  
?RCS: patch27: now uses new macro support for cleaner Strerror def  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/06 14:58:26 ram  
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/01/24 14:08:56 ram  
?RCS: patch16: protected code looking for sys\_errnolist[] with @if  
?RCS: patch16: added default value for d\_sysernlst  
?RCS:  
?RCS: Revision  
3.0 1993/08/18 12:07:35 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:

```

?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst="
?T:val
:
see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "You have sys_errlist[], so we could roll our own strerror."
d_syserrlst="$define"
else
echo "You don't have sys_errlist[], so strerror() is welcome."
d_syserrlst="$undef"
fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
d_sysernlst="$define"
else
echo "(However, I can't extract the symbolic error code out of errno.)"
d_sysernlst="$undef"
fi
@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_strerror.U

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?RCS:

?MAKE:d\_futimes: Compile cat rm\_try run

?MAKE: -pick add \$@ %<

?S:d\_futimes:

?S: This variable conditionally defines the HAS\_FUTIMES symbol, which

?S: indicates to the C program that the futimes() routine is available.

?S:.

?C:HAS\_FUTIMES:

?C: This symbol, if defined, indicates that the futimes routine is

?C: available to change file descriptor time stamps with struct timevals.

?C:.

?H:#\$d\_futimes HAS\_FUTIMES /\*\*/

?H:.

?T:rc

?F:!try

: check for a working futimes

d\_futimes="\$sundef"

echo " "

echo "Checking if you have a working futimes()" >&4

\$cat >try.c <<EOCP

#include <stdio.h>

#include <stdlib.h>

#include <sys/time.h>

#include <errno.h>

#include <fcntl.h>

#include <stdlib.h>

int main ()

{

int fd,

rv;

fd = open ("try.c", O\_RDWR);

if (-1 == fd) exit (1);

rv = futimes (fd, NULL);

exit (rv == -1 ? errno : 0);

}

EOCP

set try

```

if eval $compile; then
  `$run ./try`
  rc=$?
  case "$rc" in
0) echo "Yes, you have" >&4
  d_futimes="$define"
  ;;
*) echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
  ;;
  esac
else
  echo "No, it does not (probably harmless)" >&4
fi
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_futimes.U

```

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?RCS: \$Id: i\_libutil.U,v \$

?RCS:

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?RCS:

?MAKE:i\_libutil: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_libutil:

?S: This variable conditionally defines the I\_LIBUTIL symbol, and indicates

?S: whether a C program should include <libutil.h>.

?S:.

?C:I\_LIBUTIL:

?C: This symbol, if defined, indicates that <libutil.h> exists and

?C: should be included.

?C:.

?H:#\$i\_libutil I\_LIBUTIL /\*\*/

?H:.

?LINT:set i\_libutil

: see if this is a libutil.h system

set libutil.h i\_libutil

eval \$inhdr

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_libutil.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: This file is included with or a derivative work of a file included  
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.  
?RCS: In accordance with clause 7 of dist's modified Artistic License:  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: \$Log: perlpath.U,v \$  
?RCS:  
?RCS: Special perl5 unit -- we haven't installed perl yet.  
?RCS:  
?RCS: Revision 3.0.1.2 1995/09/25 09:17:04 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.1 1995/01/11 15:33:53 ram  
?RCS: patch45: can now use Loc variables since path stripping is deferred  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:32 ram  
?RCS: Baseline for dist  
3.0 netwide release.  
?RCS:  
?X:  
?X: The purpose of this unit is to locate perl good enough to construct a #!  
?X:  
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \  
startperl version versiononly  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:perlpath:  
?S: This variable contains the eventual value of the PERLPATH symbol,  
?S: which contains the name of the perl interpreter to be used in  
?S: shell scripts and in the "eval 'exec'" idiom. This variable is  
?S: not necessarily the pathname of the file containing the perl  
?S: interpreter; you must append the executable extension (\_exe) if  
?S: it is not already present. Note that Perl code that runs during  
?S: the Perl build process cannot reference this variable, as Perl  
?S: may not have been installed, or even if installed, may be a  
?S: different version of Perl.  
?S:.  
?C:PERLPATH:  
?C: This symbol contains the name of the perl interpreter to be  
?C: used in shell scripts and in the "eval 'exec'" idiom.



```

?C:.
?H:#define PERLPATH "$perlpath" /**/
?H:.
:
figure best path for perl in scripts
case "$perlpath" in
")
case "$versiononly" in
"$define") perlpath="$initialinstalllocation/perl$version";;
*) perlpath="$initialinstalllocation/perl";;
esac
case "$startperl" in
*!*) ;;
*)
$cat <<EOH

```

I will use the "eval 'exec'" idiom to start Perl on your system.  
I can use the full path of your Perl binary for this purpose, but  
doing so may cause problems if you want to share those scripts and  
Perl is not always in a standard place (\$initialinstalllocation/perl).

```

EOH
dflt="$initialinstalllocation/perl"
rp="What path shall I use in \"eval 'exec'\"?"
./myread
perlpath="$ans"
;;
esac
;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\" " ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/perlpath.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root

```

```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:40 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
rcs " $pth`
case "$xxx" in
")
rcs_branch=false
echo "Oh. You don't seem to have RCS here."
;;
*)
rcs > rcsbranch.out 2>&1
if $contains 'b\[rev\]' rcsbranch.out >/dev/null 2>&1 ; then
rcs_branch=true
echo "Nice! Your RCS is spiffy!"
else
rcs_branch=false
echo "Well, at least you have RCS. You know, a newer version is available."
fi
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/rcs_branch.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```

```

?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
Setvar Compile run
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX $sGMTIME_max /**/
?H:#define GMTIME_MIN $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

```

```

case "$sGMTIME_min/$sGMTIME_max" in
    0/0|/)
    $cat >try.c <<EOCP
#include
<sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
    tmp = gmtime (&t);
    if ( tmp == NULL ||
/* Check tm_year overflow */
    tmp->tm_year < min_year || tmp->tm_year > max_year)
    tmp = NULL;
    else
    pt = t;
    } /* gm_check */

int check_max ()
{
    tmp = NULL;
    pt = 0;
#ifdef MAXLONG
    gm_check (MAXLONG, 69, 0x7fffffff);
#endif
    if (tmp == NULL || tmp->tm_year < 0) {
    for (i = 63; i >= 0; i--) {
        time_t x = pt | ((time_t)1 << i);
        if (x < 0 || x < pt) continue;
        gm_check (x, 69, 0x7fffffff);
    }
    }
    printf ("sGMTIME_max=%ld\n", pt);
    return (0);
    } /* check_max */

int check_min ()
{
    tmp = NULL;
    pt = 0;
#ifdef MINLONG
    gm_check (MINLONG, -1900, 70);

```

```

#endif
    if (tmp == NULL) {
    for (i = 36; i >= 0; i--) {
        time_t x = pt - ((time_t)1 << i);
        if (x > 0) continue;
        gm_check (x, -1900, 70);
        }
    }
    printf ("sGMTIME_min=%ld\n",
    pt);
    return (0);
    } /* check_min */

int main (int argc, char *argv[])
{
    /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
    check_max ();
    check_min ();
    return (0);
    } /* main */

EOCP
set try
if eval $compile; then
    eval `$run ./try 2>/dev/null`
else
    echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
    fi
$rm_try
;;
esac

echo "Checking max offsets that localtime () accepts"

case "$sLOCALTIME_min/$sLOCALTIME_max" in
    0/0/)
        $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
    if (sizeof (time_t) > 4 && t > 0x7fffffffff000LL)
        tmp = NULL;

```

```

else
tmp = localtime (&t);
if ( tmp == NULL ||
/* Check tm_year overflow */
tmp->tm_year < min_year || tmp->tm_year > max_year)
tmp = NULL;
else
pt = t;
} /* local_check */

```

```

int check_max ()
{
tmp = NULL;
pt = 0;
#ifdef
MAXLONG
local_check (MAXLONG, 69, 0x7fffffff);
#endif
if (tmp == NULL || tmp->tm_year < 0) {
for (i = 63; i >= 0; i--) {
time_t x = pt | ((time_t)1 << i);
if (x < 0 || x < pt) continue;
local_check (x, 69, 0x7fffffff);
}
}
printf ("sLOCALTIME_max=%ld\n", pt);
return (0);
} /* check_max */

```

```

int check_min ()
{
tmp = NULL;
pt = 0;
#ifdef MINLONG
local_check (MINLONG, -1900, 70);
#endif
if (tmp == NULL) {
for (i = 36; i >= 0; i--) {
time_t x = pt - ((time_t)1 << i);
if (x > 0) continue;
local_check (x, -1900, 70);
}
}
printf ("sLOCALTIME_min=%ld\n", pt);
return (0);
} /* check_min */

```

```

int main (int argc, char *argv[])

```

```
{
  check_max ();
  check_min ();
  return (0);
} /* main */
```

EOCP

```
set try
if eval $compile; then
  eval `$run ./try 2>/dev/null`
else
  echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
fi
$rm_try
;;
esac
```

Found in path(s):

`*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/time_size.U`

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: alignbytes.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 16:02:28 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:25:20 ram

?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:23 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:alignbytes: Myread Compile cat rm\_try multiarch run test nvtype

?MAKE: -pick add \$@ %<

?S:alignbytes:

?S: This

variable holds the number of bytes required to align a

?S: double-- or a long double when applicable. Usual values are

?S: 2, 4 and 8. The default is eight, for safety.

?S:.

?X: This used to be called ALIGNBYTES, but that conflicts with

?X: <machines/param.h> in NetBSD.

?C:MEM\_ALIGNBYTES (ALIGNBYTES):

?C: This symbol contains the number of bytes required to align a

?C: double, or a long double when applicable. Usual values are 2,

?C: 4 and 8. The default is eight, for safety. For cross-compiling

?C: or multiarch support, Configure will set a minimum of 8.

?C:.

?H:~%<#define MEM\_ALIGNBYTES \$alignbytes

?H:.

?F:!try

: check for alignment requirements

echo " "

case "\$alignbytes" in

") echo "Checking alignment constraints..." >&4

\$cat >try.c <<EOCP

#include <stdio.h>

struct foobar {

char foo;

\$nvtype bar;

} try\_algn;

int main()

{

printf("%d\n", (int)((char \*)&try\_algn.bar - (char \*)&try\_algn.foo));

return(0);

}

EOCP

set try

if eval \$compile\_ok; then

dflt=`\$run

./try`

else

dflt='8'

echo "(I can't seem to compile the test program...)"

fi

case "\$multiarch" in

\*\$define\*)

: The usual safe value is 8, but Darwin with -Duselongdouble

: needs 16. Hence, we will take 8 as a minimum, but allow

: Configure to pick a larger value if needed.

if \$test "\$dflt" -lt 8; then

dflt='8'

echo "Setting alignment to 8 for multiarch support.">&4

fi

;;

esac

;;



```
*) dflt="$alignbytes"
;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/alignbytes.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: nametype.U,v \$

?RCS: Revision 3.0.1.3 1994/10/29 16:26:09 ram

?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0.1.2 1994/08/29 16:36:48 ram

?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:10:09 ram

?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:20 ram

?RCS: Baseline

for dist 3.0 netwide release.

?RCS:

?MAKE:nametype d\_passnames d\_berknames d\_usgnames: Myread Guess Oldconfig cat

?MAKE: -pick add \$@ %<

?S:nametype:

?S: This variable indicates how full names are stored on this system.

?S: Values are bsd, usg, and other.

?S:.

?S:d\_passnames:

?S: This variable conditionally defines the PASSNAMES symbol,

?S: which indicates to the C program that full names are stored in

?S: the /etc/passwd file.

?S:.

?S:d\_berknames:

?S: This variable conditionally defines the PASSNAMES symbol,

?S: which indicates to the C program that full names are stored in

?S: the /etc/passwd file in Berkeley format.

?S:.

?S:d\_usgnames:

?S: This variable conditionally defines the PASSNAMES symbol,

?S: which indicates to the C program that full names are stored in

?S: the /etc/passwd file in USG format.

?S:.

?C:PASSNAMES:

?C: This symbol, if defined, indicates that full names are stored in

?C: the /etc/passwd file.

?C:.

?C:BERKNAMES:

?C: This symbol, if defined, indicates that full names are stored in

?C: the /etc/passwd file in Berkeley format (name first thing, everything

?C: up to first comma, with & replaced by capitalized login id, yuck).

?C:.

?C:USGNAMES:

?C: This symbol, if defined, indicates that full names are stored in

?C: the /etc/passwd file in USG format (everything after - and before ( is

?C: the name).

?C:.

?H:#\$d\_passnames PASSNAMES /\* (undef to take name from ~/.fullname) \*/

?H:#\$d\_berknames BERKNAMES /\* (that is, ":name,stuff:") \*/

?H:#\$d\_usgnames USGNAMES /\* (that is, ":stuff-name(stuff):") \*/

?H:.

: find out how to find out full name

case "\$d\_berknames" in

"\$define")

dflt=y;;

"\$undef")

dflt=n;;

\*)

if ./bsd; then

dflt=y

elif ./xenix; then

dflt=y

else

dflt=n

fi

::

esac

\$cat <<'EOM'

Does your /etc/passwd file keep full names in Berkeley/V7 format (name first

thing after ':' in GCOS field)? In that case, a typical entry in the password file looks like this:

```
guest:**password**:10:100:Mister Guest User:/usr/users:/bin/sh
```

```
^^^^^^^^^^^^^^^^^^^^
```

EOM

```
rp="Berkeley/V7 format for full name in /etc/passwd?"
```

```
./myread
```

```
case "$ans" in
```

```
y*) d_passnames="$define"
```

```
  d_berknames="$define"
```

```
  d_usgnames="$undef"
```

```
  nametype=bsd
```

```
;;
```

```
*)
```

```
case "$d_usgnames" in
```

```
"$define") dflt=y;;
```

```
"$undef") dflt=n;;
```

```
*)
```

```
if ./usg; then
```

```
  dflt=y
```

```
else
```

```
  dflt=n
```

```
fi
```

```
;;
```

```
esac
```

```
$cat <<'EOM'
```

Does your passwd file keep full names in USG format (name sandwiched between a '-' and a '(')? In that case, a typical entry in the password file looks like this:

```
guest:**password**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
```

```
^^^^^^^^^^^^^^^^^^^^
```

EOM

```
rp="USG format for full name in /etc/passwd?"
```

```
./myread
```

```
case "$ans" in
```

```
n*) echo "Full name will be taken from ~/.fullname"
```

```
  d_passnames="$undef"
```

```
  d_berknames="$undef"
```

```
  d_usgnames="$undef"
```

```
  nametype=other
```

```
;;
```

```
*)
```

```
  d_passnames="$define"
```

```
  d_berknames="$undef"
```

```
d_usnames="$define"  
nametype=usg  
;;  
esac;;  
esac
```

Found in path(s):

\*

```
/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/dist/U/nametype.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_stdio\_stream\_array stdio\_stream\_array: run \  
Compile cat rm\_try Oldconfig Myread Setvar

?MAKE: -pick add \$@ %<

?S:d\_stdio\_stream\_array:

?S: This variable tells whether there is an array holding  
?S: the stdio streams.

?S:.

?S:.

?S:stdio\_stream\_array:

?S: This variable tells the name of the array holding the stdio streams.

?S: Usual values include \_job, \_\_job, and \_\_sF.

?S:.

?C:HAS\_STDIO\_STREAM\_ARRAY:

?C: This symbol, if defined, tells that there is an array

?C: holding the stdio streams.

?C:.

?C:STDIO\_STREAM\_ARRAY:

?C: This

symbol tells the name of the array holding the stdio streams.

?C: Usual values include \_job, \_\_job, and \_\_sF.

?C:.

?H:#\$d\_stdio\_stream\_array HAS\_STDIO\_STREAM\_ARRAY /\*\*/  
?H:%<:#ifdef HAS\_STDIO\_STREAM\_ARRAY

?H:%<:#define STDIO\_STREAM\_ARRAY \$stdio\_stream\_array

?H:%<:#endif

?H:%<:#endif

?H:.

?T:s

```

?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
printf("yes\n");
}
EOCP
for s in _job __job __sF
do
set try -DSTDIO_STREAM_ARRAY=$s
if eval $compile; then
case "$run ./try`" in
yes) stdio_stream_array=$s; break ;;
esac
fi
done
$rm_try
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM

```

I can't figure out how to access stdio streams by file descriptor number.

```

EOM
d_stdio_stream_array="$undef"
;;
*) $cat >&4 <<EOM

```

You can access stdio streams by file descriptor number  
by the \$stdio\_stream\_array array.

```

EOM
d_stdio_stream_array="$define"
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/stdio_streams.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_socks.U,v $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

```

```

?RCS:

```

```

?RCS: You may distribute under the terms of either the GNU General Public

```

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_socks: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_socks:

?S: This variable conditionally defines the I\_SOCKS symbol, and indicates

?S: whether a C program should include <socks.h>.

?S:.

?C:I\_SOCKS:

?C: This symbol, if defined, indicates that <socks.h> exists and

?C: should be included.

?C:.

?H:#\$i\_socks I\_SOCKS /\*\*/

?H:.

?LINT:set i\_socks

: see if this is a socks.h system

set socks.h i\_socks

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_socks.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_ieeeep.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_ieeeep: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_ieeeep:

?S: This variable conditionally defines the I\_IEEEFP symbol, and indicates

?S: whether a C program should include <ieeeep.h>.

?S:.

?C:I\_IEEEFP:

?C: This symbol, if defined, indicates that <ieeeep.h> exists and

?C: should be included.

?C:.

?H:#\$i\_ieeeep I\_IEEEFP /\*\*/

?H:.

?LINT:set i\_ieeeep

: see if this is a ieeeep.h system

case "\$i\_ieeeep" in

" ) set ieeeep.h i\_ieeeep

eval \$inhdr

```
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_ieefp.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_killpg.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:06:27 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_killpg: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_killpg:
```

```
?S: This variable conditionally defines the HAS_KILLPG symbol, which
```

```
?S: indicates to the C program that the killpg() routine is available
```

```
?S: to kill process groups.
```

```
?S:.
```

```
?C:HAS_KILLPG (KILLPG):
```

```
?C: This symbol, if defined, indicates that the killpg routine is available
```

```
?C: to kill
```

```
process groups. If unavailable, you probably should use kill
```

```
?C: with a negative process number.
```

```
?C:.
```

```
?H:#$d_killpg HAS_KILLPG /**/
```

```
?H:.
```

```
?LINT:set d_killpg
```

```
: see if killpg exists
```

```
set killpg d_killpg
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_killpg.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc_version_list.U,v $
```

?RCS:  
?RCS: Copyright (c) 2000 Andy Dougherty  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: inc\_version\_list.U,v \$  
?RCS:  
?MAKE:inc\_version\_list inc\_version\_list\_init d\_inc\_version\_list: cat sed \  
Getfile perl5 version api\_versionstring rm Myread archname \  
prefix sitelib\_stem exe\_ext  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:inc\_version\_list:  
?S: This variable specifies the list of subdirectories in over  
?S: which perl.c:incpush() and lib/lib.pm will automatically  
?S: search when adding directories to @INC. The elements in  
?S: the list are separated by spaces. This is only useful  
?S: if  
you have a perl library directory tree structured like the  
?S: default one. See INSTALL for how this works. The versioned  
?S: site\_perl directory was introduced in 5.005, so that is the  
?S: lowest possible value.  
?S:  
?S: This list includes architecture-dependent directories back to  
?S: version \$api\_versionstring (e.g. 5.5.640) and  
?S: architecture-independent directories all the way back to  
?S: 5.005.  
?S:.  
?S:inc\_version\_list\_init:  
?S: This variable holds the same list as inc\_version\_list, but  
?S: each item is enclosed in double quotes and separated by commas,  
?S: suitable for use in the PERL\_INC\_VERSION\_LIST initialization.  
?S:.  
?S:d\_inc\_version\_list:  
?S: This variable conditionally defines PERL\_INC\_VERSION\_LIST.  
?S: It is set to undef when PERL\_INC\_VERSION\_LIST is empty.  
?S:.  
?C:PERL\_INC\_VERSION\_LIST:  
?C: This variable specifies the list of subdirectories in over  
?C: which perl.c:incpush() and lib/lib.pm will automatically  
?C: search when adding directories to @INC, in a format suitable  
?C: for  
a C initialization string. See the inc\_version\_list entry  
?C: in Porting/Glossary for more details.



```

?C:
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init /**/
?H:
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
# !$perl5 -w
use File::Basename;
\sapi_versionstring = "$sapi_versionstring";
\ $version = "$version";
\ $stem = "$sitelib_stem";
\ $archname = "$archname";
EOPL
$cat >> getverlist <<'EOPL'
# The list found is store twice for each entry: the original name, and
# the binary broken down version as pack "sss", so sorting is easy and
# unambiguous. This will work for all versions that have a maximum of
# three digit groups, separate by '.'s or '_'s. Names are extended with
# ".0.0" to ensure at least three elements for the pack.
# -- H.Merijn Brand (m)06 23-10-2006

# Can't have leading @ because metaconfig interprets it as a command!
;@inc_version_list=();
# XXX Redo to do opendir/readdir?
if (-d $stem)
{
  chdir($stem);
  ;@candidates = map {
[ $_, pack "sss", split m/[. _]/, "$_.0.0" ] } glob("5.*");
  ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
  ;@candidates = ();
}

($pversion, $sversion, $vs5005) = map {
  pack "sss", split m/[. _]/, "$_.0.0" } $version, $sapi_versionstring, "5.005";
foreach $d (@candidates) {
  if ($d->[1] lt $pversion) {
  if ($d->[1] ge $sversion) {
    unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
  }
  elsif ($d->[1] ge $vs5005) {
    unshift(@inc_version_list, grep { -d } $d->[0]);
  }
  }
  else {
# Skip newer version. I.e. don't look in

```

```

# 5.7.0 if we're installing 5.6.1.
}
}

if (@inc_version_list) {
    print join(' ', @inc_version_list);
}
else {
    # Blank space to preserve value for next Configure run.
    print " ";
}
EOPL
chmod +x getverlist
case "$inc_version_list" in
*) if test -x "$perl5$exe_ext"; then
    dflt=`$perl5 getverlist`
else
    dflt='none'
fi
;;
$undef) dflt='none'
;;
?X:  Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*) eval dflt="\$inc_version_list" ;;
esac
case "$dflt" in
'| ') dflt=none ;;
esac
case "$dflt" in
5.005) dflt=none ;;
esac
$cat <<EOM

```

In order to ease the process of upgrading, this version of perl can be configured to use modules built and installed with earlier versions of perl that were installed under \$prefix. Specify here the list of earlier versions that this version of perl should check. If Configure detected no earlier versions of perl installed under \$prefix, then the list will be empty. Answer 'none' to tell perl to not search earlier versions.

The default should almost always be sensible, so if you're not sure, just accept the default.

EOM

```

rp='List of earlier versions to include in @INC?'
./myread
case "$ans" in

```

```

[Nn]one|"'|"$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
"|'')
inc_version_list_init=0'
d_inc_version_list="$undef"
;;
*) inc_version_list_init=`echo
$inc_version_list |
$sed -e 's/^\|/' -e 's/ /","/g' -e 's/$/"0/'^
d_inc_version_list="$define"
;;
esac
$rm -f getverlist

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/installdirs/inc_version_list.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: orgname.U,v \$

?RCS: Revision 3.0.1.1 1993/09/13 16:10:25 ram

?RCS: patch10: added support for /local/src to the search (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:27 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:orgname: sed cat Myread Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:orgname:

?S: This variable contains the eventual value of the ORGNAME symbol,

?S: which contains either the organization name or the full pathname

?S: of

a file containing the organization name.

?S:.

?C:ORGNAME:

?C: This symbol contains either the organization name or the full pathname

?C: of a file containing the organization name, which the program must

?C: be prepared to open and substitute the contents of.

?C:.

```
?H:#define ORGNAME "$orgname" /**/
```

?H:.

```
?T:longshots xxx
```

```
: get organization name
```

```
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
```

```
case "$orgname" in
```

```
*) if xxx=`./loc news/src/defs.h x $longshots`; then
```

```
  dflt=`sed -n 's/^.*MYORG[ ]*"(.*)"*/\1/p' $xxx`
```

```
else
```

```
  dflt="
```

```
fi
```

```
::
```

```
*) dflt="$orgname";;
```

```
esac
```

```
$cat << 'EOH'
```

Please type the name of your organization as you want it to appear on the Organization line of outgoing articles. (It's nice if this also specifies your location. Your city name is probably sufficient if well known.)

For example:

```
University of Southern North Dakota, Hoople
```

You may also put the name of a file, as long as it begins with a slash.

For example:

```
/etc/organization
```

```
EOH
```

```
orgname=""
```

```
while
```

```
test "X$orgname" = "X"; do
```

```
  rp='Organization:'
```

```
  ./myread
```

```
  orgname="$ans"
```

```
done
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/orgname.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
```

?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_telldirproto: Hasproto i\_systypes i\_dirent  
?MAKE: -pick add \$@ %<  
?S:d\_telldirproto:  
?S: This variable conditionally defines the HAS\_TELLDIR\_PROTO symbol,  
?S: which indicates to the C program that the system provides  
?S: a prototype for the telldir() function. Otherwise, it is  
?S: up to the program to supply one.  
?S:.  
?C:HAS\_TELLDIR\_PROTO:  
?C: This symbol, if defined, indicates that the system provides  
?C: a prototype for the telldir() function. Otherwise, it is up  
?C: to the program to supply one. A good guess  
is  
?C: extern long telldir(DIR\*);  
?C:.  
?H:#\$d\_telldirproto HAS\_TELLDIR\_PROTO /\*\*/  
?H:.  
?LINT:set d\_telldirproto  
: see if prototype for telldir is available  
echo " "  
set d\_telldirproto telldir \$i\_systypes sys/types.h \$i\_dirent dirent.h  
eval \$hasproto

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_telldirproto.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getspnam\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getspnam\_r getspnam\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_shadow extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getspnam\_r:

?S: This variable conditionally defines the HAS\_GETSPNAM\_R symbol,

?S: which indicates to the C program that the getspnam\_r()  
?S: routine is available.  
?S:.  
?S: getspnam\_r\_proto:  
?S: This variable encodes the prototype of getspnam\_r.  
?S: It is zero if d\_getspnam\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getspnam\_r  
?S: is defined.  
?S:.  
?C: HAS\_GETSPNAM\_R:  
?C: This symbol, if defined, indicates that the getspnam\_r routine  
?C: is available  
to getspnam re-entrantly.  
?C:.  
?C: GETSPNAM\_R\_PROTO:  
?C: This symbol encodes the prototype of getspnam\_r.  
?C: It is zero if d\_getspnam\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getspnam\_r  
?C: is defined.  
?C:.  
?H: #d\_getspnam\_r HAS\_GETSPNAM\_R /\*\*/  
?H: #define GETSPNAM\_R\_PROTO \$getspnam\_r\_proto /\*\*/  
?H:.  
?T: try hdrs d\_getspnam\_r\_proto  
: see if getspnam\_r exists  
set getspnam\_r d\_getspnam\_r  
eval \$inlibc  
case "\$d\_getspnam\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_shadow shadow.h"  
case "\$d\_getspnam\_r\_proto:\$usetthreads" in  
":define") d\_getspnam\_r\_proto=define  
set d\_getspnam\_r\_proto getspnam\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_getspnam\_r\_proto" in  
define)  
case "\$getspnam\_r\_proto" in  
"|0) try='int getspnam\_r(const char\*, struct spwd\*, char\*, size\_t, struct spwd\*\*);'  
./protochk "\$extern\_C \$try" \$hdrs && getspnam\_r\_proto=I\_CSBWR ;;  
esac  
case "\$getspnam\_r\_proto" in  
"|0) try='struct spwd\* getspnam\_r(const char\*, struct  
spwd\*, char\*, int);'  
./protochk "\$extern\_C \$try" \$hdrs && getspnam\_r\_proto=S\_CSBI ;;  
esac  
case "\$getspnam\_r\_proto" in

```

"|0) d_getspnam_r=undef
getspnam_r_proto=0
echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
*) case "$getspnam_r_proto" in
REENTRANT_PROTO*) ;;
*) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getspnam_r has no prototype, not using it." >&4 ;;
esac
d_getspnam_r=undef
getspnam_r_proto=0
;;
esac
;;
*) getspnam_r_proto=0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_getspnam_r.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3 1995/07/25 14:04:23 ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2 1994/05/13 15:18:56 ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/05/06 14:54:18 ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:18 ram

```

```

?RCS: Baseline for dist 3.0 worldwide
release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
    Otherwise, it is up to the program to
?C: guess one. Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
$cat >shmat.c <<'END'

```



```

#include <sys/shm.h>
void *shmat();
END
if $cc $cflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
else
  shmattype='char *'
fi
echo "and it returns ($shmattype)." >&4
: see if a prototype for shmat is available
xxx=`./findhdr sys/shm.h`
$cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
else
  val="$undef"
fi
$rm -f shmat.[co]
;;
*)
val="$undef"
;;
esac
set
d_shmatprototype
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/d_shmat.U

```

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?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llroundl:

?S: This variable conditionally defines the HAS\_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS\_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_llroundl HAS\_LLROUNDL /\*\*/

```
?H:
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_llroundl.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

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?RCS: You may redistribute only under the terms of the Artistic License,
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: End.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:04:51 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?X:
```

```
?X: This unit serves as the goal which forces make to choose all the units that
```

```
?X: ask questions. The $W on the ?MAKE: line is the list of all symbols wanted.
```

```
?X: To force any unit to be included, copy this unit to your private U directory
```

```
?X: and add the name of the unit desired to the ?MAKE: dependency line.
```

```
?X:
```

```
?MAKE:End: $W
```

```
?MAKE: -pick add $@ %<
```

```
?LINT:use $W
```

```
: end of configuration
```

```
questions
```

```
echo " "
```

```
echo "End of configuration questions."
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/End.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```

?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:54 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
  kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
  float value;

  sscanf("4.5", "%g", &value);
  printf("%d\n", value == 4.5);
}
EOCP
set scanf
if eval $compile_ok; then
if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
fi
else
echo "(I can't seem to compile the test program... Guessing)"

```

```
val="$undef"  
fi  
set sunscanf  
eval $setvar  
$rm -f scanf*
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/sunscanf.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1996-1998, Andy Dougherty

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: sitelib.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?RCS: Revision 3.0.1.1 1997/02/28 16:21:35 ram

?RCS: patch61: created

?RCS:

?MAKE:sitelib sitelibexp installsitelib sitelib\_stem: cat Getfile Oldconfig \  
Setprefixvar Prefixit package version sed installstyle siteprefix

?MAKE: -pick add \$@ %<

?MAKE: -pick add \$@ %<

?Y:TOP

?D:sitelib="

?S:sitelib:

?S: This variable contains the

eventual value of the SITELIB symbol,

?S: which is the name of the private library for this package. It may

?S: have a ~ on the front. It is up to the makefile to eventually create

?S: this directory while performing installation (with ~ substitution).

?S: The standard distribution will put nothing in this directory.

?S: After perl has been installed, users may install their own local

?S: architecture-independent modules in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitelibexp="

?S:sitelibexp:

?S: This variable is the ~name expanded version of sitelib, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installsitelib="

?S:installsitelib:

?S: This variable is really the same as sitelibexp but may differ on

?S: those systems using AFS. For extra portability, only this variable

?S: should be used in makefiles.

?S:.

?S:sitelib\_stem:

?S: This variable is \$sitelibexp with any trailing version-specific component

?S: removed.

The elements in inc\_version\_list (inc\_version\_list.U) can

?S: be tacked onto this variable to generate a list of directories to search.

?S:.

?C:SITELIB:

?C: This symbol contains the name of the private library for this package.

?C: The library is private in the sense that it needn't be in anyone's

?C: execution path, but it should be accessible by the world. The program

?C: should be prepared to do ~ expansion.

?C: The standard distribution will put nothing in this directory.

?C: After perl has been installed, users may install their own local

?C: architecture-independent modules in this directory with

?C: MakeMaker Makefile.PL

?C: or equivalent. See INSTALL for details.

?C:.

?C:SITELIB\_EXP:

?C: This symbol contains the ~name expanded version of SITELIB, to be used

?C: in programs that are not prepared to deal with ~ expansion at run-time.

?C:.

?C:SITELIB\_STEM:

?C: This define is SITELIB\_EXP with any trailing version-specific component

?C: removed. The elements in

inc\_version\_list (inc\_version\_list.U) can

?C: be tacked onto this variable to generate a list of directories to search.

?C:.

?H:#define SITELIB "\$sitelib" /\*\*/

?H:#define SITELIB\_EXP "\$sitelibexp" /\*\*/

?H:#define SITELIB\_STEM "\$sitelib\_stem" /\*\*/

?H:.

?T:prog

?LINT:change prefixvar

?LINT:set installsitelib

?LINT:set sitelib

?LINT:set sitelibexp

: determine where site specific libraries go.

: Usual default is /usr/local/lib/perl5/site\_perl/\$version

: The default "style" setting is made in installstyle.U

```

: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'^
case "$sitelib" in
") case "$installstyle" in
*lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
*) dflt=$siteprefix/lib/site_$prog/$version ;;
esac
;;
*) dflt="$sitelib"
;;
esac
$cat <<EOM

```

The installation process will create a directory for site-specific extensions and modules. Most users find it convenient to place all site-specific files in this directory rather than in the main distribution directory.

```

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
./getfile
prefixvar=sitelib
./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/sitelib.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1 1994/01/24 14:06:35 ram
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc

```

?MAKE: -pick add \$@ %<  
?S:d\_scandir:  
?S: This variable conditionally defines HAS\_SCANDIR if scandir() is  
?S: available to scan a directory.  
?S:.  
?C:HAS\_SCANDIR:  
?C: This symbol, if defined, indicates that the scandir routine is  
?C: available to scan a directory.  
?C:.  
?H:#\$d\_scandir HAS\_SCANDIR /\*\*/  
?H:.  
?LINT:set d\_scandir  
: see if  
  scandir exists  
set scandir d\_scandir  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_scandir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Copyright (c) 1999 Jarkko Hietaniemi  
?RCS:  
?MAKE:usesocks: Myread Oldconfig Setvar spackage package  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:usesocks:  
?S: This variable conditionally defines the USE\_SOCKS symbol,  
?S: and indicates that Perl should be built to use SOCKS.  
?S:.  
?C:USE\_SOCKS:  
?C: This symbol, if defined, indicates that Perl should  
?C: be built to use socks.  
?C:.  
?H:?%<:#\$usesocks USE\_SOCKS /\*\*/  
?H:.  
?D:usesocks="

```
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';
*)
dflt='n';
esac
cat <<EOM
```

\$package can be built to use the SOCKS proxy protocol library.  
If this doesn't make any sense to you, just accept the default '\$dflt'.

EOM

```
rp="Build $package for SOCKS?"
./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/usesocks.U
```

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS: Copyright (c) 2019, Karl Williamson

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d\_setlocale d\_setlocale\_accepts\_any\_locale\_name d\_has\_C\_UTF8: cat Compile run rm\_try i\_locale

i\_wctype d\_towupper

?MAKE: -pick add \$@ %<

?S:d\_has\_C\_UTF8:

?S: This variable is set to either "true" or "false" depending on

?S: whether the compilation system supports the C.UTF-8 locale.

?S:.

?S:d\_setlocale:

?S: This variable conditionally defines HAS\_SETLOCALE if setlocale() is

?S: available to handle locale-specific ctype implementations.

?S:.

?S:d\_setlocale\_accepts\_any\_locale\_name:

?S: This



```

variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
?F:!try
?T:LC_CTYPE
: check for setlocale function and behavior
$cat <<EOM

```

Checking to see if you have setlocale() and its behavior

EOM

```

$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
# include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
# include <wctype.h>
#endif

int main() {
    const char * invalid_name = "\a"; /* This is really invalid! */
    int accepts_any_locale_name
= 0;
    int has_C_UTF8 = 0;
    unsigned char bad_setlocale = 255;

    /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled. It's hard to imagine an instance where meaningful locale
    * handling could be done without LC_CTYPE */
    const char * name = setlocale(LC_CTYPE, "C");

    if (name == NULL || strcmp(name, "C") != 0) {
        exit(bad_setlocale);
    }
}

```

```

name = setlocale(LC_CTYPE, invalid_name);
if (name != NULL) {

    /* Let it pass if it accepts the name but gives back one of the C
     * locales */
    if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
        accepts_any_locale_name = 1;
    }
}

name = setlocale(LC_CTYPE, "C.UTF-8");
if (name != NULL) {
    unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#ifdef _TOWUPPER
#ifdef HAS_TOWUPPER

    /* We assume that if the machine doesn't have the C99 towupper, it
     * doesn't
    have C.UTF-8, even if we successfully changed locales to
     * include it. This seems safer even on platforms that didn't accept
     * the really invalid name */

    if (towupper(y_with_diaeresis) == 0x178) {
        has_C_UTF8 = 1;
    }

#endif
#endif

}

#ifdef _TOWUPPER
#endif

}

#ifdef _TOWUPPER
#endif

#ifdef LC_ALL
/* Currently unused code to determine if LC_ALL with disparate values uses
 * category = value pairs or positional, and to determine the separator
 * between the categories. We could add code so that if the separator were
 * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
 * every possible ASCII separator would fit in the 5 bits available in the
 * exit code. This would not be true in EBCDIC. And then if LC_ALL is
 * positional, we probably would want to know the order of the categories.
 * Using a file between the C program and the shell script would really be
 * require to do that */
#ifdef LC_ALL

    unsigned char min_separator = ' ' - 1;
    unsigned char separator = min_separator;
    int uses_name_value_pair_names = 0;

```

```

name = setlocale(LC_ALL, "C");
if (name == NULL || strcmp(name, "C") != 0) {
    exit(bad_setlocale);
}

if (has_C_UTF8) {
    char * pos;

    name = setlocale(LC_CTYPE, "C.UTF-8");
    if (name == NULL) {
        exit(bad_setlocale);
    }
    name = setlocale(LC_ALL, NULL);
    if (name == NULL) {
        exit(bad_setlocale);
    }

    pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
    if (pos != NULL) {
        uses_name_value_pair_names = 1;
        if (pos == name) {
            separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
        }
        else {
            separator = *(pos - 1);
        }
    }
    else {
        pos = strstr(name, "C.UTF-8");
        if (pos == NULL) {
            /* bad */
        }
        else if (pos == name) {
            separator = name[sizeof("C.UTF-8")
- 1];
        }
        else {
            separator = *(pos - 1);
        }
    }
}

#endif
#endif

exit( 0 /* (separator - min_separator) << 3
    | uses_name_value_pair_names    << 2

```

```

    */
    | has_C_UTF8          << 1
    | accepts_any_locale_name);

}
EOCP
set try
if eval $compile; then
    echo "Your system has setlocale()..." >&4
    $run ./try
    case $? in
        0) echo "and it seems sane" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
        1) echo "and it seems sane, but accepts any locale name as valid" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$define"
            d_has_C_UTF8="false"
            ;;
        2) echo "and it seems sane" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="true"
            ;;
        3) echo "and it seems sane, but accepts any locale name as valid" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$define"
            d_has_C_UTF8="true"
            ;;
        *) echo "but it doesn't seem to work, so we won't use it." >&4
            d_setlocale="$undef"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
    esac
else
    echo "your system does not have setlocale()" >&4
    d_setlocale="$undef"
    d_setlocale_accepts_any_locale_name="$undef"
    d_has_C_UTF8="false"
fi
$rm_try

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_setlocale.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel

?MAKE: -pick add \$@ %<

?LINT:set installusrbinperl

?Y:TOP

?S:installusrbinperl:

?S: This variable tells whether Perl should be installed also as

?S: /usr/bin/perl in addition to

?S: \$installbin/perl

?S:.

?C:INSTALL\_USR\_BIN\_PERL:

?C: This symbol, if defined, indicates that Perl is to be installed

?C: also as /usr/bin/perl.

?C:.

?H:#\$installusrbinperl INSTALL\_USR\_BIN\_PERL /\*\*/

?H:.

: determine

whether to install perl also as /usr/bin/perl

echo " "

if \$test -d /usr/bin -a "X\$installbin" != X/usr/bin; then

\$cat <<EOM

Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile

as /usr/bin/perl (in addition to \$bin/perl).

EOM

if test -f /usr/bin/perl; then

\$cat <<EOM

However, please note that because you already have a /usr/bin/perl,  
overwriting that with a new Perl would very probably cause problems.

Therefore I'm assuming you don't want to do that (unless you insist).

EOM

case "\$installusrbinperl" in

```
"$define"|[yY]*) dflt='y';;
*) dflt='n';;
esac
else
$cat <<EOM
```

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

```
EOM
case "$installusrbinperl" in
"$undef"|[nN]*) dflt='n';;
*) dflt='y';;
esac
fi
rp="Do you want to install perl as /usr/bin/perl?"
./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
else
val="$undef"
fi
set
installusrbinperl
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/instubperl.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_dlopen.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 13:52:56 ram

?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)

?RCS:

```

?RCS: Revision 3.0.1.1 1994/08/29 16:07:34 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries. Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_dlopen.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1 1999/07/08 18:32:29 doughera

```

?RCS: Updated for perl5.005\_5x  
?RCS:  
?RCS: Revision 3.0.1.4 1995/09/25 09:17:09 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/30 14:44:23 ram  
?RCS: patch49: can now handle installation prefix changes (from WED)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/08/29 16:31:52 ram  
?RCS:  
patch32: now uses installation prefix  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:12:34 ram  
?RCS: patch10: added support for /local/lib (WED)  
?RCS: patch10: prompt phrasing made more explicit (WED)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:35 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \  
Setprefixvar Prefixit version installstyle binexp  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?D:privlib="  
?S:privlib:  
?S: This variable contains the eventual value of the PRIVLIB symbol,  
?S: which is the name of the private library for this package. It may  
?S: have a ~ on the front. It is up to the makefile to eventually create  
?S: this directory while performing installation (with ~ substitution).  
?S:.  
?D:privlibexp="  
?S:privlibexp:  
?S: This variable is the ~name expanded version of privlib, so that you  
?S: may use it directly in Makefiles or shell scripts.  
?S:.  
?D:installprivlib="  
?S:installprivlib:  
?S: This variable  
is really the same as privlibexp but may differ on  
?S: those systems using AFS. For extra portability, only this variable  
?S: should be used in makefiles.  
?S:.  
?C:PRIVLIB:  
?C: This symbol contains the name of the private library for this package.  
?C: The library is private in the sense that it needn't be in anyone's  
?C: execution path, but it should be accessible by the world. The program  
?C: should be prepared to do ~ expansion.  
?C:.



```

?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib" /**/
?H:#define PRIVLIB_EXP "$privlibexp" /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
  setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*) set dflt privlib lib/$version ;;
esac
eval $prefixit
$cat <<EOM

```

There are some auxiliary files for \$package that need to be put into a private library directory that is accessible by everyone.

```

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
./getfile
prefixvar=privlib
./setprefixvar

```

Found in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/privlib.U  
No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:07:28 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
in a double precision number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number. If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
echo "DBL_DIG found." >&4
val="$define"
else

```

```
echo "DBL_DIG NOT found." >&4
val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_dbl_dig.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_crypt.U,v $
```

```
?RCS: Revision 3.0.1.1 1997/02/28 15:31:47 ram
```

```
?RCS: patch61: replaced .a with $_a all over the place
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:05:52 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_crypt:
```

```
?S: This variable conditionally defines the CRYPT symbol, which
```

```
?S: indicates to the C program that the crypt() routine is available
```

```
?S: to
```

```
encrypt passwords and the like.
```

```
?S:.
```

```
?S: cryptlib:
```

```
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
```

```
?S: the crypt() function is not defined in the standard C library. It is
```

```
?S: up to the Makefile to use this.
```

```
?S:.
```

```
?C:HAS_CRYPT (CRYPT):
```

```
?C: This symbol, if defined, indicates that the crypt routine is available
```

```
?C: to encrypt passwords and the like.
```

```
?C:.
```

```
?H:#$d_crypt HAS_CRYPT /**/
```

```
?H:.
```

```

?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
echo 'crypt() found.' >&4
val="$define"
cryptlib="
else
cryptlib=`./loc Slibcrypt$a "" $xlibpth`
if $test -z "$cryptlib"; then
cryptlib=`./loc Mlibcrypt$a "" $xlibpth`
else
cryptlib=-lcrypt
fi
if $test -z "$cryptlib"; then
cryptlib=`./loc Llibcrypt$a "" $xlibpth`
else
cryptlib=-lcrypt
fi
if $test -z "$cryptlib"; then
cryptlib=`./loc libcrypt$a ""
$libpth`
else
cryptlib=-lcrypt
fi
if $test -z "$cryptlib"; then
echo 'crypt() NOT found.' >&4
val="$undef"
else
val="$define"
fi
fi
set d_crypt
eval $setvar
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_crypt.U

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?RCS: \$Id: d\_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_wcstombs.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:03 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_wcstombs: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_wcstombs:  
?S: This variable conditionally defines the HAS\_WCSTOMBS symbol, which  
?S: indicates to the C program that the wcstombs() routine is available  
?S: to convert wide character strings to multibyte strings.  
?S:.  
?C:HAS\_WCSTOMBS:  
?C: This symbol, if defined, indicates that the wcstombs  
routine is  
?C: available to convert wide character strings to multibyte strings.  
?C:.  
?H:#\$d\_wcstombs HAS\_WCSTOMBS /\*\*/  
?H:.  
?LINT:set d\_wcstombs  
: see if wcstombs exists  
set wcstombs d\_wcstombs  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_wcstombs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1996,1998 Andy Dougherty  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
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?RCS:

?RCS: \$Log: d\_sigsetjmp.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:44:33 ram

?RCS: patch61: created

?RCS:

?MAKE:d\_sigsetjmp: Compile Setvar cat rm\_try run i\_stdlib

?MAKE: -pick add \$@ %<

?S:d\_sigsetjmp:

?S: This variable conditionally defines the HAS\_SIGSETJMP symbol,

?S: which

indicates that the sigsetjmp() routine is available to

?S: call setjmp() and optionally save the process's signal mask.

?S:.

?C:HAS\_SIGSETJMP:

?C: This variable indicates to the C program that the sigsetjmp()

?C: routine is available to save the calling process's registers

?C: and stack environment for later use by siglongjmp(), and

?C: to optionally save the process's signal mask. See

?C: Sigjmp\_buf, Sigsetjmp, and Siglongjmp.

?C:.

?C:Sigjmp\_buf:

?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.

?C:.

?C:Sigsetjmp:

?C: This macro is used in the same way as sigsetjmp(), but will invoke

?C: traditional setjmp() if sigsetjmp isn't available.

?C: See HAS\_SIGSETJMP.

?C:.

?C:Siglongjmp:

?C: This macro is used in the same way as siglongjmp(), but will invoke

?C: traditional longjmp() if siglongjmp isn't available.

?C: See HAS\_SIGSETJMP.

?C:.

?H:%<:#\$d\_sigsetjmp HAS\_SIGSETJMP /\*\*/

?H:%<:#ifdef HAS\_SIGSETJMP

?H:%<:#define Sigjmp\_buf sigjmp\_buf

?H:%<:#define Sigsetjmp(buf,save\_mask)

sigsetjmp((buf),(save\_mask))

?H:%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))

?H:%<:#else

?H:%<:#define Sigjmp\_buf jmp\_buf

?H:%<:#define Sigsetjmp(buf,save\_mask) setjmp((buf))

?H:%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))

?H:%<:#endif

?H:.

?W:%<:Sigjmp\_buf Sigsetjmp Siglongjmp

```

?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
$cat >try.c <<EOP
#include <setjmp.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
if (sigsetjmp(env,1))
exit(set);
set = 0;
siglongjmp(env, 1);
exit(1);
}
EOP
set try
if eval $compile; then
if $run ./try >/dev/null 2>&1; then
echo "POSIX sigsetjmp found." >&4
val="$define"
else
$cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
ignore them.
EOM
val="$undef"
fi
else
echo "sigsetjmp not found." >&4
val="$undef"
fi
;;
*) val="$d_sigsetjmp"
case "$d_sigsetjmp" in
$define) echo "POSIX sigsetjmp found." >&4;;
$undef) echo "sigsetjmp not found." >&4;;
esac

```

```
;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_sigsetjmp.U
```

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?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: voidflags.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:27:58 ram

?RCS: patch61: don't prompt them if the void support is high enough for us

?RCS:

?RCS: Revision 3.0.1.1 1995/01/11 15:37:44 ram

?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s

?RCS:

?RCS: Revision 3.0 1993/08/18 12:10:01 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:voidflags defvoidused: cat sed rm rm\_try contains +cc +ccflags package \  
Oldconfig Myread

?MAKE: -pick add \$@ %<

?S:voidflags:

?S: This

variable contains the eventual value of the VOIDFLAGS symbol,

?S: which indicates how much support of the void type is given by this

?S: compiler. See VOIDFLAGS for more info.

?S:.

?S:defvoidused:

?S: This variable contains the default value of the VOIDUSED symbol (15).

?S:.

?X: Exceptionally, we have to explicitly alias the symbol name for

?X: config\_h.SH, otherwise the comment would not appear.

?C:VOIDFLAGS ~ %<:

?C: This symbol indicates how much support of the void type is given by this

?C: compiler. What various bits mean:



```

?C:
?C: 1 = supports declaration of void
?C: 2 = supports arrays of pointers to functions returning void
?C: 4 = supports comparisons between pointers to void functions and
?C: addresses of void functions
?C: 8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package. This can be done either by #defining VOIDUSED before
?C: including
?C: config.h, or by defining defvoidused in Myinit.U. If the
?C: latter approach is taken, only those flags will be tested. If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:%<:#ifndef VOIDUSED
?H:%<:#define VOIDUSED $defvoidused
?H:%<:#endif
?H:%<:#define VOIDFLAGS $voidflags
?H:%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:%<:#define void int /* is void to be avoided? */
?H:%<:#define M_VOID /* Xenix strikes again */
?H:%<:#endif
?H:.
?W:%<:void
?F:!out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

```

Support flag bits are:

- 1: basic void declarations.
- 2: arrays of pointers to functions returning void.
- 4: operations between pointers to and addresses of void functions.
- 8: generic void pointers.

EOM

case

"\$voidflags" in

")

\$cat >try.c <<'EOCP'

#if TRY & 1

void sub() {

```

#else
sub() {
#endif
extern void moo(); /* function returning void */
void (*goo)(); /* ptr to func returning void */
#if TRY & 8
void *hue; /* generic ptr */
#endif
#if TRY & 2
void (*foo[10])();
#endif

#if TRY & 4
if(goo == moo) {
    exit(0);
}
#endif
exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
voidflags=$defvoidused
echo "Good. It appears to support void to the level $package wants."
if $contains warning .out >/dev/null 2>&1; then
echo "However, you might get some warnings that look like this:"
$sed -e 's/^/ ' .out
fi
else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
$cat >&4 flags
$rm -f flags
if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
echo
"It supports 1..."
if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
echo "It also supports 2..."
if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
voidflags=7
echo "And it supports 4 but not 8 definitely."
else
echo "It doesn't support 4..."
if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
voidflags=11
echo "But it supports 8."
else

```

```

voidflags=3
echo "Neither does it support 8."
fi
fi
else
echo "It does not support 2..."
if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
voidflags=13
echo "But it supports 4 and 8."
else
if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
voidflags=5
echo "And it supports 4 but has not heard about 8."
else
echo "However it supports 8 but not 4."
fi
fi
fi
else
echo "There is no support at all for void."
voidflags=0
fi
fi
esac
?X: Only prompt user if support does not match the
level we want
case "$voidflags" in
"$defvoidused")
echo "Good. I already know it supports void to the level $package wants."
;;
*)
dflt="$voidflags";
test -f flags && $cat flags
rp="Your void support flags add up to what?"
./myread
voidflags="$ans"
;;
esac
$rm_try flags

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/voidflags.U
```

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?RCS:

?MAKE:d\_exp2: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_exp2:  
?S: This variable conditionally defines the HAS\_EXP2 symbol, which  
?S: indicates to the C program that the exp2() routine is available.  
?S:.  
?C:HAS\_EXP2:  
?C: This symbol, if defined, indicates that the exp2 routine is  
?C: available to do the 2\*\*x function.  
?C:.  
?H:#\$d\_exp2 HAS\_EXP2 /\*\*/  
?H:.  
?LINT:set d\_exp2  
: see if exp2 exists  
set exp2 d\_exp2  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_exp2.U

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?RCS:

?MAKE:d\_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ilogb:

?S: This variable conditionally defines the HAS\_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS\_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d\_ilogb HAS\_ILOGB /\*\*/  
?H:.

?LINT:set d\_ilogb

: see if ilogb exists

set ilogb d\_ilogb

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_ilogb.U

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?RCS:  
?MAKE:d\_fegetround: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_fegetround:  
?S: This variable conditionally defines HAS\_FEGETROUND if fegetround() is  
?S: available to get the floating point rounding mode.  
?S:.  
?C:HAS\_FEGETROUND:  
?C: This symbol, if defined, indicates that the fegetround routine is  
?C: available to return the macro corresponding to the current rounding  
?C: mode.  
?C:.  
?H:#\$d\_fegetround HAS\_FEGETROUND /\*\*/  
?H:.  
?LINT:set d\_fegetround  
: see if fegetround exists  
set fegetround d\_fegetround  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fegetround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_vfork.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_vfork.U,v \$  
?RCS: Revision 3.0.1.1 1994/05/06 15:05:44 ram  
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:50 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:i\_vfork: Inhdr d\_vfork  
?MAKE: -pick add \$@ %<  
?S:i\_vfork:  
?S: This variable conditionally defines the I\_VFORK symbol, and indicates  
?S: whether a C program should include vfork.h.

```

?S:.
?C:I_VFORK:
?C: This symbol,
    if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
    set vfork.h i_vfork
    eval $inhdr
    ;;
*)
    i_vfork="$undef"
    ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_vfork.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:29 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.

```

```

?H:#$d_statblks USE_STAT_BLOCKS
/**/
?H:
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
echo "Your stat() knows about block sizes." >&4
val="$define"
else
echo "Your stat() doesn't know about block sizes." >&4
val="$undef"
fi
else
echo "Your stat() doesn't know about block sizes." >&4
val="$undef"
fi
set d_statblks
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_statblks.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET

```

?S: symbol, which makes us call tzset before localtime\_r()  
?S:.  
?S:localtime\_r\_proto:  
?S: This  
variable encodes the prototype of localtime\_r.  
?S: It is zero if d\_localtime\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_localtime\_r  
?S: is defined.  
?S:.  
?C:HAS\_LOCALTIME\_R:  
?C: This symbol, if defined, indicates that the localtime\_r routine  
?C: is available to localtime re-entrantly.  
?C:.  
?C:LOCALTIME\_R\_NEEDS\_TZSET:  
?C: Many libc's localtime\_r implementations do not call tzset,  
?C: making them differ from localtime(), and making timezone  
?C: changes using \\${ENV}{TZ} without explicitly calling tzset  
?C: impossible. This symbol makes us call tzset before localtime\_r  
?C:.  
?H:%<:#\$d\_localtime\_r\_needs\_tzset LOCALTIME\_R\_NEEDS\_TZSET /\*\*/  
?H:%<:#ifdef LOCALTIME\_R\_NEEDS\_TZSET  
?H:%<:#define L\_R\_TZSET tzset(),  
?H:%<:#else  
?H:%<:#define L\_R\_TZSET  
?H:%<:#endif  
?H:.  
?C:L\_R\_TZSET:  
?C: If localtime\_r() needs tzset, it is defined in this define  
?C:.  
?C:LOCALTIME\_R\_PROTO:  
?C: This symbol encodes the prototype of localtime\_r.  
?C: It is zero if d\_localtime\_r  
is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_localtime\_r  
?C: is defined.  
?C:.  
?H:#\$d\_localtime\_r HAS\_LOCALTIME\_R /\*\*/  
?H:#define LOCALTIME\_R\_PROTO \$localtime\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_localtime\_r\_proto  
?F:!try  
: see if localtime\_r exists  
set localtime\_r d\_localtime\_r  
eval \$inlibc  
case "\$d\_localtime\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_time time.h \$i\_systime sys/time.h"  
case "\$d\_localtime\_r\_proto:\$usetthreads" in



```

":define") d_localtime_r_proto=define
set d_localtime_r_proto localtime_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_localtime_r_proto" in
define)
case "$localtime_r_proto" in
"|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
esac
case "$localtime_r_proto" in
"|0) try='int localtime_r(const time_t*, struct tm*);'
./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
esac
case "$localtime_r_proto" in
"|0) d_localtime_r=undef
localtime_r_proto=0
echo
"Disabling localtime_r, cannot determine prototype." >&4 ;;
* ) case "$localtime_r_proto" in
REENTRANT_PROTO*) ;;
*) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "localtime_r has no prototype, not using it." >&4 ;;
esac
d_localtime_r=undef
localtime_r_proto=0
;;
esac
;;
*) localtime_r_proto=0
;;
esac

: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
$cat >try.c <<EOCP
/* Does our libc's localtime_r call tzset ?
* return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD

```

```

#$_time I_TIME
#$_stdlib I_STDLIB
#$_malloc I_MALLOC
#ifdef I_SYS_TYPES
# include <sys/types.h>
#endif
#ifdef I_UNISTD
# include <unistd.h>
#endif
#ifdef I_TIME
# include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
# include <malloc.h>
#endif
int
main()
{
    time_t t = time(0L);
    char w_tz[]="TZ" "=GMT+5",
    e_tz[]="TZ" "=GMT-5",
    *tz_e = (char*)malloc(16),
    *tz_w = (char*)malloc(16);
    struct tm tm_e, tm_w;
    memset(&tm_e, '\0', sizeof(struct tm));
    memset(&tm_w, '\0', sizeof(struct tm));
    strcpy(tz_e, e_tz);
    strcpy(tz_w, w_tz);

    putenv(tz_e);
    localtime_r(&t, &tm_e);

    putenv(tz_w);
    localtime_r(&t, &tm_w);

    if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
return 1;
    return 0;
}
EOCP
set try
if eval $compile; then
    if $run ./try; then
        d_localtime_r_needs_tzset=undef;

```

```

else
d_localtime_r_needs_tzset=define;
fi;
else
d_localtime_r_needs_tzset=undef;
fi;
;;
*)
d_localtime_r_needs_tzset=undef;
;;
esac
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_localtime_r.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
?RCS: Revision 3.0.1.1 1993/12/15 08:19:17 ram
?RCS: patch15: created
?RCS:
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNCR if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNCR:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNCR /**/
?H:.
?LINT:set d_msync
: see if
msync exists
set msync d_msync

```

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_msync.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Guess.U,v \$

?RCS: Revision 3.0.1.5 1995/07/25 13:37:14 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.4 1994/10/29 15:53:55 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: call ./xenix explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0.1.3 1993/12/15 08:14:35 ram

?RCS: patch15: variable d\_bsd was not always set properly

?RCS:

?RCS: Revision 3.0.1.2 1993/08/30 08:57:14 ram

?RCS: patch8: fixed comment which wrongly

attributed the usrinc symbol

?RCS: patch8: no more ugly messages when no /usr/include/ctype.h

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:37:37 ram

?RCS: patch7: added support for OSF/1 machines

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit hazards some guesses as to what the general nature of the system

?X: is. The information it collects here is used primarily to establish default

?X: answers to other questions.

?X:

?MAKE:Guess d\_eunice d\_xenix d\_bsd d\_linux d\_dos d\_os2: cat test echo n c \

contains rm tr Loc eunicefix

?MAKE: -pick add \$@ %<

?S:d\_eunice:

?S: This variable conditionally defines the symbols EUNICE\_SYSTEM, which alerts the C program that it must deal with idiosyncracies of VMS.  
?S:.  
?S:d\_xenix:  
?S: This variable conditionally defines the symbol XENIX\_SYSTEM, which alerts the C program that it runs under Xenix.  
?S:.  
?S:d\_dos:  
?S: This symbol conditionally defines the symbol DOS\_SYSTEM when running on DOS with DJGPP or Cygwin.  
?S:.  
?S:d\_os2:  
?S: This symbol conditionally defines the symbol OS2\_SYSTEM when running on an OS/2 system.  
?S:.  
?S:d\_bsd:  
?S: This symbol conditionally defines the symbol BSD\_SYSTEM when running on a BSD system.  
?S:.  
?S:d\_linux:  
?S: This symbol conditionally defines the symbol LINUX\_SYSTEM when running on a Linux system.  
?S:.  
?C:EUNICE\_SYSTEM (EUNICE):  
?C: This symbol, if defined, indicates that the program is being compiled under the EUNICE package under VMS. The program will need to handle things like files that don't go away the first time you unlink them, due to version numbering. It will also need to compensate for lack of a respectable link() command.  
?C:.  
?C:VMS\_SYSTEM (VMS):  
?C: This symbol, if defined, indicates that the program is running under VMS. It is currently only set in conjunction with the EUNICE symbol.  
?C:.  
?C:XENIX\_SYSTEM (XENIX):  
?C: This symbol, if defined, indicates that the program is running under Xenix (at least 3.0 ?).  
?C:.  
?C:DOS\_SYSTEM:  
?C: This symbol, if defined, indicates that the program is running under DOS with DJGPP.  
?C:.  
?C:OS2\_SYSTEM:  
?C: This symbol, if defined, indicates that the program is running under an OS/2 system.  
?C:.

```

?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM /**/
?H:#$d_eunice VMS_SYSTEM /**/
?H:#$d_xenix XENIX_SYSTEM /**/
?H:#$d_dos DOS_SYSTEM /**/
?H:#$d_os2 OS2_SYSTEM /**/
?H:#$d_bsd BSD_SYSTEM /**/
?H:#$d_linux LINUX_SYSTEM /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm... $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
  exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
  echo "Looks kind of like an OSF/1 system, but we'll see..."
  echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
  xxx=`./loc addbib blurfl $pth`

```

```

if $test -f $xxx; then
echo "Looks kind of like a USG system with BSD features, but we'll see..."
echo exit 0 >bsd
echo exit 0 >usg
else
if $contains SIGTSTP foo >/dev/null 2>&1 ; then
echo "Looks kind of like an extended USG system, but we'll see..."
else
echo "Looks kind of like a USG system, but we'll see..."
fi
echo exit 0 >usg
fi
elif $contains SIGTSTP foo >/dev/null
2>&1 ; then
echo "Looks kind of like a BSD system, but we'll see..."
d_bsd="$define"
echo exit 0 >bsd
elif
$rm --version 2>/dev/null >foo;
$contains "Free Software Foundation" foo >/dev/null
then
xxx=`uname`
echo exit 0 >gnu
echo "Looks kind of like a GNU/$xxx system, but we'll see..."
if $test X$xxx = XLinux; then
d_linux="$define"
echo exit 0 >linux
fi
else
echo "Looks kind of like a Version 7 system, but we'll see..."
echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
$cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
echo exit 0 >eunice
d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
;;
*)
echo " "
echo "Congratulations. You aren't running Eunice."
d_eunice="$undef"
;;
esac

```

```

case "$p_" in
:) ;;
*)
$cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
if
test -n "$DJGPP"; then
case "X${MACHTYPE:-nonesuchmach}" in
cygwin) echo "hah!... you're running under Cygwin!";;
*) echo "got it... you're running DOS with DJGPP!";;
esac
echo exit 0 >dos
d_dos="$define"
else
$cat <<'EOI'
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
echo exit 0 >os2
d_os2="$define"
fi
;;
esac
if test -f /xenix; then
echo "Actually, this looks more like a XENIX system..."
echo exit 0 >xenix
d_xenix="$define"
else
echo " "
echo "It's not Xenix..."
d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
echo "Actually, this looks more like a VENIX system..."
echo exit 0 >venix
else
echo " "
if ./xenix; then
: null
else
echo "Nor is it Venix..."
fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo

```



Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Guess.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_limits.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_limits.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:20 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:i\_limits: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_limits:

?S: This variable conditionally defines the I\_LIMITS symbol, and indicates

?S: whether a C program may include <limits.h> to get symbols like WORD\_BIT

?S: and friends.

?S:.

?C:I\_LIMITS:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <limits.h> to

get definition of symbols like WORD\_BIT or

?C: LONG\_MAX, i.e. machine dependant limitations.

?C:.

?H:#\$i\_limits I\_LIMITS /\*\*/

?H:.

?LINT:set i\_limits

: see if this is a limits.h system

set limits.h i\_limits

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_limits.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_euc2jis.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:05:58 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_euc2jis: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_euc2jis:  
?S: This variable conditionally defines the HAS\_EUC2JIS symbol, which  
?S: indicates to the C program that the euc2jis() routine is available  
?S: to convert EUC to JIS.  
?S:.  
?C:HAS\_EUC2JIS:  
?C: This symbol, if defined, indicates that the euc2jis routine is  
?C: available to convert  
EUC to JIS.  
?C:.  
?H:#\$d\_euc2jis HAS\_EUC2JIS /\*\*/  
?H:.  
?LINT:set d\_euc2jis  
: see if euc2jis exists  
set euc2jis d\_euc2jis  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_euc2jis.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_csh.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:32:18 ram  
?RCS: patch61: added full\_csh to preserve the full path even when portable

```

?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:53 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
or
?S: not the user has specified 'portability'. This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had #undef CSH ""
?X: which the compiler didn't like. It's easy to work around this,
?X: so I did. --AD 3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac

```

```
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_csh.U
```

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_localeconv\_1: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_localeconv\_1:

?S: This variable conditionally defines the HAS\_LOCALECONV\_L symbol, which

?S: indicates to the C program that the localeconv\_1() routine is available.

?S:.

?C:HAS\_LOCALECONV\_L:

?C: This symbol, if defined, indicates that the localeconv\_1 routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d\_localeconv\_1 HAS\_LOCALECONV\_L /\*\*/

?H:.

?LINT:set d\_localeconv\_1

: see if localeconv\_1 exists

set localeconv\_1 d\_localeconv\_1

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_localeconv_1.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_const.U,v \$  
?RCS: Revision 3.0.1.1 1993/11/10 17:33:41 ram  
?RCS: patch14: stronger const check with added typedef for MIPS cc  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:51 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_const: cat rm cc ccflags Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_const:  
?S: This variable conditionally defines the HASCONST symbol, which  
?S: indicates to the C program that this C compiler knows about the  
?S: const type.  
?S:.  
?C:HASCONST ~ %<:  
?C: This symbol,  
if defined, indicates that this C compiler knows about  
?C: the const type. There is no need to actually test for that symbol  
?C: within your programs. The mere use of the "const" keyword will  
?C: trigger the necessary tests.  
?C:.  
?H:?%<:#\$d\_const HASCONST /\*\*/  
?H:?%<:#ifndef HASCONST  
?H:?%<:#define const  
?H:?%<:#endif  
?H:.  
?W:%<:const  
?F:const.c const.o  
?LINT:set d\_const  
?LINT:known const  
: check for const keyword  
echo " "  
echo 'Checking to see if your C compiler knows about "const"...'>&4  
\$cat >const.c <<'EOCP'  
?X: mmc@bruce.cs.monash.edu.au reports that:  
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A  
?X: pretends to understand `const' but doesn't - it'll also fail to  
?X: handle typedefs properly if they're declared const. To guard  
?X: against this, boost up the test by using an explicit typedef...  
typedef struct spug { int drokk; } spug;  
int main()  
{  
const char \*foo;  
const spug y;  
}

```
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
  val="$define"
  echo "Yup,
  it does."
else
  val="$undef"
  echo "Nope, it doesn't."
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_const.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:48:20 ram
?RCS: patch61: added I_RPCSV_CDBM check
?RCS:
?RCS: Revision 3.0.1.1 1995/05/12 12:16:05 ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:15 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_dbm i_rpcsv_cdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
  the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
?S:i_rpcsv_cdbm:
?S: This variable conditionally defines the I_RPCSV_CDBM symbol, which
```

```

?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included. Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
?C:I_RPCSVCS_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVCS_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbmopen() because
?X: some versions of SCO Unix have -ldb, but are missing dbmclose(). -- ADO
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
set dbm.h i_dbm
eval $inhdr
case "$i_dbm" in
$define)
val="$undef"
set i_rpcsvcdbm
eval $setvar
;;
*) set rpcsvc/dbm.h i_rpcsvcdbm
eval $inhdr
;;
esac
;;
*) echo "We won't be including <dbm.h>"
val="$undef"
set i_dbm
eval $setvar
val="$undef"
set i_rpcsvcdbm
eval $setvar

```

```
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_dbm.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:extras: Myread Oldconfig Setvar rm
```

```
?MAKE: -pick add $@ %<
```

```
?Y:TOP
```

```
?S:extras:
```

```
?S: This variable holds a list of extra modules to install.
```

```
?S:.
```

```
: See if we want extra modules installed
```

```
echo " "
```

```
case "$extras" in
```

```
  ") dflt='n';;
```

```
  *) dflt='y';;
```

```
esac
```

```
cat <<EOM
```

Perl can be built with extra modules or bundles of modules which will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet, or a local copy, for example a CD-ROM or a local CPAN mirror. (You will be asked later to configure the CPAN.pm module which will in turn do the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require any external software such as libraries and headers (the libz library and the zlib.h header for the Compress::Zlib module, for example) you MUST have any such software already installed, this configuration process will NOT install such things for you.

If this doesn't make any sense to you, just accept the default '\$dflt'.

```
EOM
```

```
rp='Install any extra modules (y or n)?'
```

```
./myread
```

```
case "$ans" in
```



```
y|Y)
cat <<EOM
```

Please list any extra modules or bundles to be installed from CPAN, with spaces between the names. The names can be in any format the 'install' command of CPAN.pm will understand. (Answer 'none', without the quotes, to install no extra modules or bundles.)

```
EOM
rp='Extras?'
dflt="$extras"
. ./myread
extras="$ans"
esac
case "$extras" in
'|none')
val=""
$rm -f ../extras.lst
;;
*) echo "(Saving the list of extras for later...)"
echo "$extras" > ../extras.lst
val="$extras"
;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/Extras.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: prefix.U,v \$

?RCS: Revision 3.0.1.2 1995/01/30 14:44:05 ram

?RCS: patch49: new prefixexp variable holding a fully expanded prefix

?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)

?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:31:34 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig

cat package

?MAKE: -pick add \$@ %<

?S:prefix:

?S: This variable holds the name of the directory below which the

?S: user will install the package. Usually, this is /usr/local, and

?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,

?S: man pages in /usr/local/man, etc. It is only used to set defaults

?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.

?S:.

?S:prefixexp:

?S: This variable holds the full absolute path of the directory below

?S: which the user will install the package. Derived from prefix.

?S:.

?S:oldprefix:

?S: This variable is set non-null if the prefix was previously defined

?S: and gets set to a new value. Used internally by Configure only.

?S:.

?C:INSTALLPREFIX:

?C: This symbol contains the name of the install prefix for this package.

?C:.

?H:#define INSTALLPREFIX "\$prefix" /\*\*/

?H:.

: determine root of directory hierarchy where package will be installed.

case "\$prefix" in

")

dflt=`./loc ./usr/local /usr/local /local /opt

/usr`

::

\*)

dflt="\$prefix"

::

esac

\$cat <<EOM

By default, \$package will be installed in \$dflt/bin, manual pages under \$dflt/man, etc..., i.e. with \$dflt as prefix for all installation directories. Typically set to /usr/local, but you may choose /usr if you wish to install \$package among your system binaries. If you wish to have binaries under /bin but manual pages under /usr/local/man, that's ok: you will be prompted separately for each of the installation directories, the prefix being only used to set the defaults.

```

EOM
fn=d~
rp='Installation prefix to use?'
./getfile
oldprefix=""
case "$prefix" in
") ;;
*)
case "$ans" in
"$prefix") ;;
*) oldprefix="$prefix";;
esac
;;
esac
prefix="$ans"
prefixexp="$ansexp"

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/prefix.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Hasproto.U \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasproto string that is used internally

?X: by Configure to check if this system has a prototype for a

?X: particular function

?X:

?X: To use it, say something like:

?X: set d\_getnetent\_proto getnetent \$i\_netdb netdb.h

?X: eval \$hasproto

?X: Or, for more complicated sets of headers, do something like

?X: hdrs="\$define sys/types.h

?X: \$i\_systemtime sys/time.h

?X: \$i\_sysselect sys/select.h

?X: \$i\_netdb netdb.h"

?X: set d\_getnetent\_proto getnetent \$hdrs

?X: eval \$hasproto

?X:

?X: There is also an 'escape' hatch built in. If you have a pair

?X: of args 'literal 'stuff' then 'stuff' gets included literally

?X: into the test program. See Protochk.U for more details.

```

?X:
?MAKE:Hasproto:
  Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
  case "$1" in
  $define) echo "#include <$2>";;
  literal) echo "$2" ;;
  esac ;
  shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
  echo "$func() prototype found.";
  val="$define";
else
  echo "$func() prototype NOT found.";
  val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/Hasproto.U
```

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```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: startsh.U,v $
```

```
?RCS: Revision 3.0.1.1 1997/02/28 16:25:31 ram
```

```
?RCS: patch61: avoid needless chatter since this is now done very early
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:09:51 ram
```

```

?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
    shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
*) startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
    : echo "Yup, it does."
else
    echo "Hmm... '$startsh' does not guarantee sh startup..."
    echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

case $CONFIG in
")
if test -f config.sh; then TOP=.;
elif test -f ../config.sh; then TOP=../.;
elif test -f ../../config.sh; then TOP=../../.;
elif test -f ../../../config.sh; then TOP=../../../.;
elif test -f ../../../../config.sh; then TOP=../../../../.;

```

```

else
  echo "Can't find config.sh."; exit 1
fi
. $TOP/config.sh
;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*/\)^'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
#
Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:05 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:37 ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh. Desperation time. I will feed myself to sh."; sh \${0}; kill \${$})

cat='$cat'
cppflags='$cppflags'
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
sort='$sort'
test='$test'
tr='$tr'

```

```

uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<!NO!SUBS!

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.*.c.c
if test -f Makefile; then
    mf=Makefile
else
    mf=makefile
fi
if test -f $mf; then
    defrule=`<$mf sed -n \
-e '/^\.c\.o:.*;/{' \
-e 's/^\$*\.\c//' \
-e 's/^[^;]*[ ]*//p' \
-e q \
-e }' \
-e '/^\.c\.o: *$/{' \
-e N \
-e 's/^\$*\.\c//' \
-e 's/^\.*\n[ ]*//p' \
-e q \
-e }`^
fi
case
"$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
$echo *.c | $tr ' ' '\012' | $egrep -v '*' >.clist)
gotnone=true
for file in `cat .clist`; do
# for file in `cat /dev/null`; do
    case "$file" in
*.c) filebase=`basename $file .c` ;;
*.y) filebase=`basename $file .c` ;;
") continue ;;
esac
gotnone=false
$echo "Finding dependencies for $filebase.o."
$sed -n <$file >$file.c \
-e "/^${filebase}_init(/q" \
-e '/^#/{' \
-e 's/^\.*$||' \
-e 's\\$||' \

```

```

-e p \
-e '}'
  $cpp -I/usr/local/include -I. $cppflags $file.c | \
  $sed \
-e '/^# *[0-9]!/d' \
-e 's/^\.*"\(.*\)".*$/$filebase'.o: \1/' \
-e 's|: \./: |' \
-e 's|\.c\.c|.c'| \
  $uniq | $sort | $uniq >> .deptmp
done

```

```
$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY!/d'
```

```

make shlist || ($echo "Searching for .SH files..."; \
$echo *.SH | $tr ' ' '\012' | $grep -v '*' >.shlist)
if $gotnone || $test -s .deptmp; then

```

```

  for file in `cat .shlist`; do
    $echo `$expr X$file : 'X\(.*\).SH': $file config.sh`; \
    /bin/sh $file >> .deptmp
  done
  $echo "Updating Makefile..."
  $echo "# If this runs make out of memory, delete /usr/include lines." \
>> Makefile.new
  $sed 's/^\(.*\): \1(.*/.*.c) *$|1 \2; ""$defrule \2|" .deptmp \
  >>Makefile.new

```

```

else
  make hlist || ($echo "Searching for .h files..."; \
$echo *.h | $tr ' ' '\012' | $grep -v '*' >.hlist)
  $echo "You don't seem to have a proper C preprocessor. Using grep instead."
  $grep '^#include ' `cat .clist` `cat .hlist` >.deptmp
  $echo "Updating Makefile..."
  <.clist $sed -n \
-e '/\{ ' \
-e 's/^\(.*\)\(.*\)\.c\2.o: \1\2.c; ""$defrule \1\2.c|p' \
-e d \
-e '}' \
-e 's/^\(.*\)\.c\1.o: \1.c|p' >> Makefile.new
  <.hlist $sed -n 's/^\(.*\)\(.*\)|s= \2= \1\2=|p' >.hsed
  <.deptmp $sed -n 's|c:#include "\(.*)".*$|o: \1|p' | \
  $sed 's/^[^;]*/|' | \
  $sed -f
  .hsed >> Makefile.new
  <.deptmp $sed -n 's|c:#include <\(.*)>.*$|o: /usr/include\1|p' \
  >> Makefile.new
  <.deptmp $sed -n 's|h:#include "\(.*)".*$|h: \1|p' | \
  $sed -f .hsed >> Makefile.new
  <.deptmp $sed -n 's|h:#include <\(.*)>.*$|h: /usr/include\1|p' \

```



```

>> Makefile.new
for file in `scat .shlist`; do
$echo `$expr X$file : 'X\(.*)\.SH` : $file config.sh \; \
/bin/sh $file >> Makefile.new
done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\./c.c/' .clist` .shlist .clist .hlist .hsed

```

```

!NO!SUBS!
$unicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
    $rm -f ../makedepend
    ln makedepend ../makedepend
    ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/makedepend.SH

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:41 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE:-pick add $@ %<
?S:i_systypes:

```

?S: This variable conditionally defines the I\_SYS\_TYPES symbol,  
 ?S: and indicates whether a C program should include <sys/types.h>.  
 ?S:.  
 ?C:I\_SYS\_TYPES (I\_SYSTYPES):  
 ?C: This symbol, if defined, indicates to the C program  
 that it should  
 ?C: include <sys/types.h>.  
 ?C:.  
 ?H:#\$i\_systypes I\_SYS\_TYPES /\*\*/  
 ?H:.  
 ?LINT:set i\_systypes  
 : see if sys/types.h has to be included  
 set sys/types.h i\_systypes  
 eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_systypes.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
 ?RCS:  
 ?RCS: You may redistribute only under the terms of the Artistic License,  
 ?RCS: as specified in the README file that comes with the distribution.  
 ?RCS: You may reuse parts of this distribution only within the terms of  
 ?RCS: that same Artistic License; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: scriptdir.U,v \$  
 ?RCS: Revision 3.0.1.3 1995/09/25 09:17:15 ram  
 ?RCS: patch59: unit is now forced to the top of Configure, if possible  
 ?RCS:  
 ?RCS: Revision 3.0.1.2 1995/01/30 14:46:13 ram  
 ?RCS: patch49: can now handle installation prefix changes (from WED)  
 ?RCS:  
 ?RCS: Revision 3.0.1.1 1994/08/29 16:32:04 ram  
 ?RCS: patch32: now uses installation prefix  
 ?RCS:  
 ?RCS: Revision 3.0 1993/08/18 12:09:45 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:scriptdir scriptdirexp installscript:  
 afs cat test Getfile Loc \  
 Oldconfig +bin Prefixit prefixexp Prefixup  
 ?MAKE: -pick add \$@ %<  
 ?Y:TOP

?S:scriptdir:

?S: This variable holds the name of the directory in which the user wants

?S: to put publicly scripts for the package in question. It is either

?S: the same directory as for binaries, or a special one that can be

?S: mounted across different architectures, like /usr/share. Programs

?S: must be prepared to deal with ~name expansion.

?S:.

?S:scriptdirexp:

?S: This variable is the same as scriptdir, but is filename expanded

?S: at configuration time, for programs not wanting to bother with it.

?S:.

?S:installscript:

?S: This variable is usually the same as scriptdirexp, unless you are on

?S: a system running AFS, in which case they may differ slightly. You

?S: should always use this variable within your makefiles for portability.

?S:.

?C:SCRIPTDIR:

?C: This symbol holds the name of the directory in which the user wants

?C: to put publicly executable scripts for the

package in question. It

?C: is often a directory that is mounted across diverse architectures.

?C: Programs must be prepared to deal with ~name expansion.

?C:.

?C:SCRIPTDIR\_EXP:

?C: This is the same as SCRIPTDIR, but is filename expanded at

?C: configuration time, for use in programs not prepared to do

?C: ~name substitutions at run-time.

?C:.

?H:#define SCRIPTDIR "\$scriptdir" /\*\*/

?H:#define SCRIPTDIR\_EXP "\$scriptdirexp" /\*\*/

?H:.

: determine where public executable scripts go

set scriptdir scriptdir

eval \$prefixit

case "\$scriptdir" in

\*)

dflt="\$bin"

: guess some guesses

\$test -d /usr/share/scripts && dflt=/usr/share/scripts

\$test -d /usr/share/bin && dflt=/usr/share/bin

\$test -d /usr/local/script && dflt=/usr/local/script

\$test -d \$prefixexp/script && dflt=\$prefixexp/script

set dflt

eval \$prefixup

;;

\*) dflt="\$scriptdir"

;;

esac

```
$cat <<EOM
```

Some installations have a separate directory just for executable scripts so that they can mount it across multiple architectures but keep the scripts in one spot. You might, for example, have a subdirectory of /usr/share for this. Or you might just lump your scripts in with all your other executables.

```
EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
  installscript="
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
$cat <<EOM
```

Since you are running AFS, I need to distinguish the directory in which scripts reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```
EOM
case "$installscript" in
  *) dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#`;;
  *) dflt="$installscript";;
esac
fn=de~
rp='Where will public scripts be installed?'
. ./getfile
installscript="$ans"
else
installscript="$scriptdirexp"
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/scriptdir.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libdbm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:56:57 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:58 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libdbm: test Loc libpth \_a

?MAKE: -pick add \$@ %<

?S:libdbm:

?S: This variable contains the argument to pass to the loader in order

?S: to get the dbm library routines. If there is no dbm or ndbm

?S: library, it is null.

?S:.

?T:xxx

:

see if we should include -ldbm

echo " "

if \$test -r /usr/lib/libndbm\$\_a || \$test -r /usr/local/lib/libndbm\$\_a ; then

echo "-lndbm found." >&4

libdbm='-lndbm'

elif \$test -r /usr/lib/libdbm\$\_a || \$test -r /usr/local/lib/libdbm\$\_a ; then

echo "-ldbm found." >&4

libdbm='-ldbm'

else

xxx=`./loc libdbm\$\_a x \$libpth`

case "\$xxx" in

x)

echo "No dbm library found." >&4

libdbm=""

::

\*)

echo "DBM library found in \$xxx." >&4

libdbm="\$xxx"

::

esac

fi

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/libdbm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp \$

```

?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:37:12 ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1 1995/07/25 13:58:26 ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:44 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:
?H:#$d_open3 HAS_OPEN3 /**/
?H:
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE

```

```

#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
  if(O_RDONLY);
#ifdef O_TRUNC
  exit(0);
#else
  exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
  && eval $compile; then
  h_sysfile=true;
  echo "<sys/file.h> defines the O_* constants..." >&4
  if $run ./try; then
    echo "and you have the 3 argument form of open()." >&4
    val="$define"
  else
    echo "but not the 3 argument form of open(). Oh, well." >&4
    val="$undef"
  fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
  h_fcntl=true;
  echo "<fcntl.h> defines the O_* constants..." >&4
  if $run ./try; then
    echo "and you have the 3 argument form of open()." >&4
    val="$define"
  else
    echo "but not the 3 argument form of open(). Oh, well." >&4
    val="$undef"
  fi
else
  val="$undef"
  echo "I can't find the O_* constant definitions! You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d\_open3.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysstatvfs.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysstatvfs:

?S: This variable conditionally defines the I\_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I\_SYS\_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysstatvfs I\_SYS\_STATVFS /\*\*/

?H:.

?LINT:set i\_sysstatvfs

: see if this is a sys/statvfs.h system

set sys/statvfs.h i\_sysstatvfs

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_sysstatvfs.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fpgetround:

?S: This variable conditionally defines HAS\_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS\_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d\_fpgetround HAS\_FPGETROUND /\*\*/

?H:.



```
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fpgetround.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: Tr.U,v $
```

```
?RCS: Revision 3.0.1.2 1994/10/29 18:00:54 ram
```

```
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.1 1994/10/29 15:58:35 ram
```

```
?RCS: patch36: created
```

```
?RCS:
```

```
?X:
```

```
?X: This unit produces a bit of shell code that must be dotted in in order
```

```
?X: to do a character translation. It catches translations to uppercase or
```

```
?X: to lowercase, and then invokes the real tr to perform the job.
```

```
?X:
```

```
?X: This unit is necessary on HP machines (HP strikes again!)
```

```
with non-ascii
```

```
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
```

```
?X: covers not the whole alphabet but lots of special chars. This was reported
```

```
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
```

```
?X:
```

```
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
```

```
?X: us in their dependency and use ./tr instead.
```

```
?X:
```

```
?MAKE:Tr: startsh tr eunicefix
```

```
?MAKE:-pick add $@ %<
```

```
?F:./tr
```

```
?T:up low LC_ALL
```

```
: see whether [:lower:] and [:upper:] are supported character classes
```

```
echo " "
```

```
case ""echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
```

```

ABYZ)
echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
up='[:upper:]'
low='[:lower:]'
;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
   # (0xc9 and 0xd1), therefore that is a nice testing point.
   if test "X$up" = X -o "X$low" = X; then
   case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
   ij) up='[A-Z]'
       low='[a-z]'
       ;;
   esac
   fi
if test "X$up" = X -o "X$low" = X; then
   case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
   ij) up='A-Z'
       low='a-z'
       ;;
   esac
   fi
if test "X$up" = X -o "X$low" = X; then
   case "`echo IJ | od -x 2>/dev/null`" in
   *C9D1*|*c9d1*)
   echo "Hey, this might be EBCDIC." >&4
   if test "X$up" = X -o "X$low" = X; then
   case "`echo IJ | \
   LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
   ij) up='[A-IJ-RS-Z]'
       low='[a-ij-rs-z]'
       ;;
   esac
   fi
if test "X$up" = X -o "X$low" = X; then
   case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
   ij) up='A-IJ-RS-Z'
       low='a-ij-rs-z'
       ;;
   esac
   fi
;;
   esac
   fi
;;
   esac
   fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
ij)
   echo "Using $up and $low to convert case." >&4

```

```

;;
*)
    echo "I don't know how to translate letters from upper to lower case." >&4
    echo "Your tr is not acting any way I know of." >&4
    exit 1
;;
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOESC
$startsh
case "$1\2" in
[A-Z][a-z]) LC_ALL=C exec $tr 'Sup' 'Slow';;
[a-z][A-Z]) LC_ALL=C exec $tr 'Slow' 'Sup';;
esac
LC_ALL=C exec $tr "\$@"
EOESC
chmod +x tr
$unicefix tr

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Tr.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigblock.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:21 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.

```

?H:#\$d\_sigblock HAS\_SIGBLOCK /\*\*/

?H:.

?LINT:set

d\_sigblock

: see if sigblock exists

set sigblock d\_sigblock

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_sigblock.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: modetype.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:25:07 ram

?RCS: patch36: created by ADO

?RCS:

?MAKE:modetype: Myread Typedef

?MAKE: -pick add \$@ %<

?S:modetype:

?S: This variable defines modetype to be something like mode\_t,

?S: int, unsigned short, or whatever type is used to declare file

?S: modes for system calls.

?S:.

?C:Mode\_t:

?C: This symbol holds the type used to declare file modes

?C: for systems calls.

It is usually mode\_t, but may be

?C: int or unsigned short. It may be necessary to include <sys/types.h>

?C: to get any typedefed information.

?C:.

?H:#define Mode\_t \$modetype /\* file mode parameter for system calls \*/

?H:.

: see what type is used for mode\_t

set mode\_t modetype int stdio.h sys/types.h

eval \$typedef

```
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
./myread
modetype="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/modetype.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_sbrk.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/01/24 14:06:31 ram
```

```
?RCS: patch16: created
```

```
?RCS:
```

```
?MAKE:d_sbrk: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_sbrk:
```

```
?S: This variable conditionally defines HAS_SBRK if sbrk() is
```

```
?S: available to add more core to the process.
```

```
?S:.
```

```
?C:HAS_SBRK:
```

```
?C: This symbol, if defined, indicates that the sbrk system call is
```

```
?C: available to add/release core. Always true on Unix.
```

```
?C:.
```

```
?H:#$d_sbrk HAS_SBRK /**/
```

```
?H:.
```

```
?LINT:set d_sbrk
```

```
: see
```

```
if sbrk exists
```

```
set sbrk d_sbrk
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sbrk.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION /**/
?H:.
?T:foo
?F:!try
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$sundef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
    return (0);
} /* main */
EOCP
set try
if eval $compile; then
    foo=`$run ./try`
    echo "Yes, it does ($foo)" >&4
    d_libm_lib_version="$sdefine"
else
    echo "No, it does not (probably harmless)" >&4
fi
$rm_try

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_libm_lib_version.U
No license file was found, but licenses were detected in source scan.

```

?RCS: \$Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: yacc.U,v \$

?RCS: Revision 3.0.1.1 1994/05/13 15:28:48 ram

?RCS: patch27: added byacc as another alternative (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:10:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test \_exe

?MAKE: -pick add \$@ %<

?S:yacc:

?S: This variable holds the name of the compiler compiler we  
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.

?S:.

?S:yaccflags:

?S: This  
variable contains any additional yacc flags desired by the  
?S: user. It is up to the Makefile to use this.

?S:.

?T:comp

: determine compiler compiler

case "\$yacc" in

)

dflt=yacc;;

\*)

dflt="\$yacc";;

esac

echo " "

comp='yacc'

if \$test -f "\$byacc\$\_exe"; then

dflt="\$byacc"

comp="byacc or \$comp"

fi

if \$test -f "\$bison\$\_exe"; then

comp="\$comp or bison -y"

fi

rp="Which compiler compiler (\$comp) shall I use?"

./myread

yacc="\$ans"

```

case "$yacc" in
*bis*)
case "$yacc" in
*_y*) ;;
*)
yacc="$yacc -y"
echo "(Adding -y option to bison to get yacc-compatible behavior.)"
;;
esac
;;
esac

```

```

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

```

Your yacc program may need extra flags to normally process the parser sources. Do NOT specify any -d or -v flags here, since those are explicitly known by the various Makefiles. However, if your machine has strange/undocumented options (like -Sr# on SCO to specify the maximum number of grammar rules), then please add them here. To use no flags, specify the word "none".

```

EOH
rp="Any additional yacc flags?"
./myread
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

```

@end

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/yacc.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.



```

?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isfinite(0.0); }
EOCP
set try
if eval $compile; then
  val="$define"
  echo "You have isfinite."
else
  val="$undef"
  echo
  "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_isfinite.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1999, Andy Dougherty

```

```

?RCS:

```

```

?RCS: You may redistribute only under the terms of the Artistic License,

```

```

?RCS: as specified in the README file that comes with the distribution.

```

```

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?RCS: that same Artistic License; a copy of which may be found at the root

```

```

?RCS: of the source tree for dist 3.0.

```

```

?RCS:

```

?RCS: \$Log: vendorlib.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:d\_vendorlib vendorlib vendorlibexp installvendorlib vendorlib\_stem: \  
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \  
 installstyle version

?MAKE: -pick add \$@ %<

?Y:TOP

?S:vendorlib:

?S: This variable contains the eventual value of the VENDORLIB symbol,  
 ?S: which is the name of the private library for this package.

?S: The standard  
 distribution will put nothing in this directory.

?S: Vendors who distribute perl may wish to place their own  
 ?S: modules in this directory with

?S: MakeMaker Makefile.PL INSTALLDIRS=vendor  
 ?S: or equivalent. See INSTALL for details.

?S:.

?S:vendorlibexp:

?S: This variable is the ~name expanded version of vendorlib, so that you  
 ?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installvendorlib="

?S:installvendorlib:

?S: This variable is really the same as vendorlibexp but may differ on  
 ?S: those systems using AFS. For extra portability, only this variable  
 ?S: should be used in makefiles.

?S:.

?S:d\_vendorlib:

?S: This variable conditionally defines PERL\_VENDORLIB.

?S:.

?S:vendorlib\_stem:

?S: This variable is \$vendorlibexp with any trailing version-specific component  
 ?S: removed. The elements in inc\_version\_list (inc\_version\_list.U) can  
 ?S: be tacked onto this variable to generate a list of directories to search.

?S:.

?C:PERL\_VENDORLIB:

?C: If defined, this symbol contains  
 the name of a private library.

?C: The library is private in the sense that it needn't be in anyone's  
 ?C: execution path, but it should be accessible by the world. The program  
 ?C: should be prepared to do ~ expansion.

?C: The standard distribution will put nothing in this directory.

?C: Vendors who distribute perl may wish to place their own  
 ?C: modules in this directory with

?C: MakeMaker Makefile.PL INSTALLDIRS=vendor  
 ?C: or equivalent. See INSTALL for details.

```

?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed. The elements in inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib" /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
"$vendorlibexp" /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem" /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
") d_vendorlib="$Sundef"
vendorlib="
vendorlibexp="
;;
*) d_vendorlib="$define"
: determine where vendor-supplied modules go.
: Usual default is /usr/local/lib/perl5/vendor_perl/$version
case "$vendorlib" in
")
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//`
case "$installstyle" in
*lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
*) dflt=$vendorprefix/lib/vendor_$prog/$version ;;
esac
;;
*) dflt="$vendorlib"
;;
esac
fn=d~+
rp='Pathname for the vendor-supplied library files?'
./getfile
vendorlib="$ans"
vendorlibexp="$ansexp"
;;
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/,$version$,,"`
prefixvar=vendorlib

```

./installprefix

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorlib.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strerror\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_strerror\_r strerror\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
uthreads extern\_C

?MAKE: -pick add \$@ %<

?S:d\_strerror\_r:

?S: This variable conditionally defines the HAS\_STRError\_R symbol,

?S: which indicates to the C program that the strerror\_r()

?S: routine is available.

?S:.

?S:stderr\_r\_proto:

?S: This variable encodes the prototype of strerror\_r.

?S: It is zero if d\_strerror\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_strerror\_r

?S: is defined.

?S:.

?C:HAS\_STRError\_R:

?C: This symbol, if defined, indicates that the strerror\_r routine

?C: is available to strerror

re-entrantly.

?C:.

?C:STRError\_R\_PROTO:

?C: This symbol encodes the prototype of strerror\_r.

?C: It is zero if d\_strerror\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_strerror\_r

?C: is defined.

?C:.

?H:#\$d\_strerror\_r HAS\_STRError\_R /\*\*/

?H:#define STRError\_R\_PROTO \$stderr\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_strerror\_r\_proto

: see if strerror\_r exists

set strerror\_r d\_strerror\_r

eval \$inlibc

case "\$d\_strerror\_r" in

```

"$define")
hdrs="$i_systypes sys/types.h define stdio.h define string.h"
case "$d_strerror_r_proto:$usetthreads" in
":define") d_strerror_r_proto=define
set d_strerror_r_proto strerror_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_strerror_r_proto" in
define)
case "$strerror_r_proto" in
"|0) try='int strerror_r(int, char*, size_t);'
./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
esac
case "$strerror_r_proto" in
"|0) try='int strerror_r(int, char*, int);'
./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
;;
esac
case "$strerror_r_proto" in
"|0) try='char* strerror_r(int, char*, size_t);'
./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
esac
case "$strerror_r_proto" in
"|0) d_strerror_r=undef
strerror_r_proto=0
echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
* ) case "$strerror_r_proto" in
REENTRANT_PROTO*) ;;
*) strerror_r_proto="REENTRANT_PROTO_${strerror_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "strerror_r has no prototype, not using it." >&4 ;;
esac
d_strerror_r=undef
strerror_r_proto=0
;;
esac
;;
*) strerror_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/threads/d\_strerror\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strerror\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strerror\_l:

?S: This variable conditionally defines the HAS\_STRERROR\_L symbol, which

?S: indicates to the C program that the strerror\_l() routine is available

?S: to return the error message for a given errno value in a particular

?S: locale (identified by a locale\_t object).

?S:.

?C:HAS\_STRERROR\_L:

?C: This symbol, if defined, indicates that the strerror\_l routine is

?C: available to return the error message for a given errno value in

?C: a particular locale (identified by a locale\_t object).

?C:.

?H:#\$d\_strerror\_l HAS\_STRERROR\_L /\*\*/

?H:.

?LINT:set d\_strerror\_l

: see if strerror\_l exists

set strerror\_l d\_strerror\_l

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_strerror\_l.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_gethent.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_gethent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_gethent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_gethent:

?S: This variable conditionally defines HAS\_GETHOSTENT if gethostent() is

?S: available to look up host names in some data base or another.

?S:.

?C:HAS\_GETHOSTENT:

?C: This symbol, if defined, indicates that the gethostent() routine is

?C: available to look up host names in some

data base or another.

?C:.

?H:#\$d\_gethent HAS\_GETHOSTENT /\*\*/

?H:.

?LINT:set d\_gethent

: see if gethostent exists

set gethostent d\_gethent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_gethent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_time.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 14:07:43 ram

?RCS: patch56: typo fix, sytem -> system

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:16:38 ram

?RCS: patch36: now uses new Typedef unit to compute type information (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X: Maybe <sys/types.h> should be included?

?X:INC: i\_systypes

?MAKE:d\_time timetype: Csym Setvar Findhdr Myread Typedef

?MAKE: -pick

add \$@ %<

?S:d\_time:

?S: This variable conditionally defines the HAS\_TIME symbol, which indicates

?S: that the time() routine exists. The time() routine is normally

?S: provided on UNIX systems.

?S:.

?S:timetype:

?S: This variable holds the type returned by time(). It can be long,

?S: or time\_t on BSD sites (in which case <sys/types.h> should be

?S: included). Anyway, the type Time\_t should be used.

?S:.

?C:HAS\_TIME (TIMER):

?C: This symbol, if defined, indicates that the time() routine exists.

?C:.

?C:Time\_t (TIMETYPE):

?C: This symbol holds the type returned by time(). It can be long,

?C: or time\_t on BSD sites (in which case <sys/types.h> should be

?C: included).

?C:.

?H:#\$d\_time HAS\_TIME /\*\*/

?H:#define Time\_t \$timetype /\* Time type \*/

?H:.

?LINT:set d\_time

: see if time exists

echo " "

?X: MPE/iX needs this protection of hint values.

?X: See d\_sterror.U for more explanation.

if test "\$d\_time" = X -o X"\$timetype" = X; then

if set time val -f d\_time; eval \$csym; \$val;

then

echo 'time() found.' >&4

val="\$define"

rp="What is the type returned by time() on this system?"

set time\_t timetype long stdio.h sys/types.h

eval \$typedef\_ask

else

echo 'time() not found, hope that will do.' >&4

val="\$undef"

timetype='int';

fi

set d\_time

eval \$setvar

fi

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/d\_time.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi



```

?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1 1995/05/12 12:16:39 ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:19 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
(HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
?C:.
?H:#$i_gdbm I_GDBM /**/
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
: see if gdbm_open exists
set gdbm_open d_gdbm_open
eval $inlibc
case "$d_gdbm_open" in
$undef)
t_gdbm="$undef"
echo "We won't be including <gdbm.h>"
;;
esac
;;
esac
val="$t_gdbm"

```

```
set i_gdbm
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_gdbm.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmount.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:i_sysmount: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_sysmount:
```

```
?S: This variable conditionally defines the I_SYSMOUNT symbol,
```

```
?S: and indicates whether a C program should include <sys/mount.h>.
```

```
?S:.
```

```
?C:I_SYS_MOUNT:
```

```
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
```

```
?C: should be included.
```

```
?C:.
```

```
?H:#$i_sysmount I_SYS_MOUNT /**/
```

```
?H:.
```

```
?LINT:set i_sysmount
```

```
: see if this is a sys/mount.h system
```

```
set sys/mount.h i_sysmount
```

```
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_sysmount.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
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```
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```
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: uidtype.U,v $
```

?RCS: Revision 3.0.1.3 1994/08/29 16:33:25 ram

?RCS: patch32: now uses new Typedef unit to compute type information

?RCS:

?RCS: Revision 3.0.1.2 1994/06/20 07:09:36 ram

?RCS: patch30: comment for uidtype referred to the obsoleted symbol

?RCS:

?RCS: Revision 3.0.1.1 1994/05/13 15:28:27 ram

?RCS: patch27: made conformant to its gidtype.U companion

?RCS: patch27: question now explicitly mentions getuid()

?RCS:

?RCS: Revision 3.0 1993/08/18  
12:09:56 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:uidtype: Myread Typedef Findhdr

?MAKE: -pick add \$@ %<

?S:uidtype:

?S: This variable defines Uid\_t to be something like uid\_t, int,  
?S: ushort, or whatever type is used to declare user ids in the kernel.

?S:.

?C:Uid\_t (UIDTYPE):

?C: This symbol holds the type used to declare user ids in the kernel.

?C: It can be int, ushort, uid\_t, etc... It may be necessary to include  
?C: <sys/types.h> to get any typedef'ed information.

?C:.

?H:#define Uid\_t \$uidtype /\* UID type \*/

?H:.

?T:xxx

: see what type uids are declared as in the kernel

echo " "

echo "Looking for the type for user ids returned by getuid()."

set uid\_t uidtype xxx stdio.h sys/types.h

eval \$typedef

case "\$uidtype" in

xxx)

xxx=`./findhdr sys/user.h`

set `grep '\_ruid;' "\$xxx" 2>/dev/null` unsigned short

case \$1 in

unsigned) dflt="\$1 \$2" ;;

\*) dflt="\$1" ;;

esac

::

\*) dflt="\$uidtype";;

esac

case "\$uidtype" in

uid\_t) echo "uid\_t found." ;;

\*) rp="What

is the type for user ids returned by getuid()?"

```
. /myread
uidtype="$ans"
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/uidtype.U
```

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?RCS: \$Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: prefshell.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 16:28:13 ram

?RCS: patch36: added SHELL temporary since metalint now sees \${SHELL}

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:11:47 ram

?RCS: patch10: non-portable var substitution was used (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:34 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash

?MAKE: -pick add \$@ %<

?S:prefshell:

?S: This

variable contains the eventual value of the PREFSHELL symbol,

?S: which contains the full name of the preferred user shell on this

?S: system. Usual values are /bin/csh, /bin/ksh, /bin/sh.

?S:.

?C:PREFSHELL:

?C: This symbol contains the full name of the preferred user shell on this

?C: system. Usual values are /bin/csh, /bin/ksh, /bin/sh.

?C:.

?H:#define PREFSHELL "\$prefshell" /\*\*/

?H:.

?T:SHELL

: find out which shell people like to use most

case "\$prefshell" in

```

")
case "$ksh $bash $csh" in
*/ksh*) dflt="$ksh" ;;
*/bash*) dflt="$bash" ;;
*/csh*) dflt="$csh" ;;
*) dflt="/bin/sh" ;;
esac
;;
*) dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM

```

Give the full path name of the shell most people like to use on your system. This will be used by \$package whenever the user wants to get a shell escape (for instance) and is not necessarily the same as the shell you are currently using (\${SHELL:-/bin/sh}).

```

EOM
fn=f/~
rp='Preferred
shell to be used?'
./getfile
prefshell=$ans

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/prefshell.U

```

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```

?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
?RCS: Copyright (c) 2000, Andrew Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
?RCS:
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking. Normally on Unix systems this is defined.

```

```

?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK /**/
?H:.
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional. As of November 2000, on VMS and
?X: DOS/DJGPP, fcntl-based locking doesn't work.
?X: Thanks
to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
    struct flock flock;
    int retval, fd;
    fd = open("try.c", O_RDONLY);
    flock.l_type = F_RDLCK;
    flock.l_whence = SEEK_SET;
    flock.l_start = flock.l_len = 0;
    signal(SIGALRM, blech);
    alarm(10);
    retval = fcntl(fd, F_SETLK, &flock);
    close(fd);
    (retval < 0 ? exit(2) : exit(0));
#else
    exit(2);
#endif
}
EOCP
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
set try
if eval $compile_ok; then
if $run ./try; then
echo "Yes, it seems to work."
val="$define"
else

```

```

echo "Nope, it didn't work."
val="$undef"
case "$?" in
  3) $cat >&4 <<EOM
***
*** I had to
forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate. Cannot continue, aborting.
***
EOM
  exit 1
  ;;
  esac
fi
else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
fi
;;
*) val="$undef";
echo "Nope, since you don't even have fcntl()."
;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fcntl_can_lock.U

```

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```

?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1 1995/01/30 14:29:22 ram
?RCS: patch49: created
?RCS:

```

?X:

?X: Used as: "set dflt var dir; eval \$prefixit" to set \$dflt to be

?X: \$prefix/dir by default, or the previous \$var depending on certain

?X: conditions:

?X: - If the \$oldprefix variable is empty, then \$prefix holds the same

?X: value as on previous runs. Therefore, reuse \$var if set, otherwise

?X: set \$dflt to \$prefix/dir.

?X: - If \$oldprefix is not

empty, then set \$dflt to \$prefix/dir if \$var

?X: is empty (first run). Otherwise, if \$var is \$oldprefix/dir, then

?X: change it to \$prefix/dir. If none of the above, reuse the old \$var.

?X:

?X: When dir is omitted, the dflt variable is set to \$var if prefix did not

?X: change, to an empty value otherwise. If dir=none, then a single space

?X: in var is kept as-is, even if the prefix changes.

?X:

?MAKE:Prefixit: prefix oldprefix

?MAKE: -pick add \$@ %<

?LINT:define prefixit

?S:prefixit:

?S: This shell variable is used internally by Configure to reset

?S: the leading installation prefix correctly when it is changed.

?S: set dflt var [dir]

?S: eval \$prefixit

?S: That will set \$dflt to \$var or \$prefix/dir depending on the

?S: value of \$var and \$oldprefix.

?S:.

?V:prefixit

?T:tp

: set the prefixit variable, to compute a suitable default value

```
prefixit='case "$3" in
""|none)
case "$oldprefix" in
"" ) eval "$1=\"\$$2\"";;
*)
case "$3" in
"" ) eval "$1=";;
none)
eval "tp=\"\$$2\"";
case
"$tp" in
""|" "|none) eval "$1=\"\$$2\"";;
*) eval "$1=";;
esac;;
esac;;
esac;;
*)
eval "tp=\"\$oldprefix-\$$2-\""; eval "tp=\"\$tp\"";
```



```

case "$tp" in
--/*--|\~*--) eval "$1=\"\$prefix/$3\"";;
/*-$oldprefix/*|\~*-$oldprefix/*)
eval "$1=\`echo \$$2 | sed \`s,^\$oldprefix,\$prefix,\`\`";;
*) eval "$1=\"\$$2\"";;
esac;;
esac'

```

Found in path(s):

```

*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/Prefixit.U

```

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?RCS: \$Id\$

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?RCS:

?RCS: \$Log: d\_vprintf.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:59 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_vprintf d\_charvspr: Guess cat +cc +ccflags Csym Setvar

?MAKE: -pick add \$@ %<

?S:d\_vprintf:

?S: This variable conditionally defines the HAS\_VPRINTF symbol, which

?S: indicates to the C program that the vprintf() routine is available

?S: to printf with a pointer to an argument list.

?S:.

?S:d\_charvspr:

?S: This variable conditionally defines CHARVSPRINTF if this system

?S: has

vsprintf returning type (char\*). The trend seems to be to

?S: declare it as "int vsprintf()".

?S:.

?C:HAS\_VPRINTF (VPRINTF):

?C: This symbol, if defined, indicates that the vprintf routine is available

?C: to printf with a pointer to an argument list. If unavailable, you

?C: may need to write your own, probably in terms of \_doprnt().

?C:.

?C:USE\_CHAR\_VSPRINTF (CHARVSPRINTF):

?C: This symbol is defined if this system has vsprintf() returning type

?C: (char\*). The trend seems to be to declare it as "int vsprintf()". It

?C: is up to the package author to declare vsprintf correctly based on the

?C: symbol.

?C:.

?H:#\$d\_vsprintf HAS\_VPRINTF /\*\*/

?H:#\$d\_charvspr USE\_CHAR\_VSPRINTF /\*\*/

?H:.

?F:!vsprintf !vprintf.c

?T:val2

?LINT:set d\_vsprintf d\_charvspr

: see if vprintf exists

echo " "

if set vprintf val -f d\_vsprintf; eval \$csym; \$val; then

echo 'vprintf() found.' >&4

val="\$define"

\$cat >vprintf.c <<'EOF'

#include <varargs.h>

```
int main() { xxx("foo"); }
```

```
xxx(va_alist
```

```
va_dcl
```

```
{
```

```
va_list args;
```

```
char
```

```
buf[10];
```

```
va_start(args);
```

```
exit(((unsigned long)vsprintf(buf,"%s",args) > 10L);
```

```
}
```

```
EOF
```

if \$cc \$cflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then

echo "Your vsprintf() returns (int)." >&4

val2="\$undef"

else

echo "Your vsprintf() returns (char\*)." >&4

val2="\$define"

fi

else

echo 'vprintf() NOT found.' >&4

val="\$undef"

val2="\$undef"

fi

set d\_vsprintf

eval \$setvar

val=\$val2

set d\_charvspr

eval \$setvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_vprintf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

?MAKE:d\_accessx: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_accessx:

?S: This variable conditionally defines the HAS\_ACCESSX symbol, which

?S: indicates to the C program that the accessx() routine is available.

?S:.

?C:HAS\_ACCESSX :

?C: This symbol, if defined, indicates that the accessx routine is

?C: available to do extended access checks.

?C:.

?H:#\$d\_accessx HAS\_ACCESSX /\*\*/

?H:.

?LINT:set d\_accessx

: see if accessx exists

set accessx d\_accessx

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/acl/d\_accessx.U

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \

Setprefixvar prefix siteprefix man3dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:siteman3dir="

?S:siteman3dir:

?S: This variable contains the name of the directory in which site-specific library man source pages are to be put. It is the responsibility of the Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After perl has been installed, users may install their own local man3 pages in this directory with MakeMaker Makefile.PL or equivalent. See INSTALL for details.

?S:.

?D:siteman3direxp="

?S:siteman3direxp:

?S: This variable is the same as the siteman3dir variable, but is filename expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsiteman3dir="

?S:installsiteman3dir:

?S: This variable is really the same as siteman3direxp, unless you are using AFS in which case it points to the read/write location whereas man3direxp only points to the read-only access location. For extra portability, you should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installsiteman3dir

?LINT:set siteman3dir

?LINT:set siteman3direxp

: determine where add-on library man pages go

```
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|" ') dflt=none ;;
esac
fn=dn+~
rp=Pathname
where the site-specific library manual pages should be installed?'
./getfile
prefixvar=siteman3dir
./setprefixvar
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/siteman3dir.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log1p:

?S: This variable conditionally defines the HAS\_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute  $\log(1 + x)$  for values of  $x$  close to zero.

?S:.

?C:HAS\_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d\_log1p HAS\_LOG1P /\*\*/

?H:.

?LINT:set d\_log1p

: see if log1p exists

set log1p d\_log1p

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_log1p.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS:

?RCS: \$Log: i\_sysparam.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:22:43 ram

?RCS: patch32: created

?RCS:

?MAKE:i\_sysparam: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_sysparam:

?S: This variable conditionally defines the I\_SYS\_PARAM symbol, and indicates

?S: whether a C program should include <sys/param.h>.

?S:.

```
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM /**/
?H:.
?LINT:set
i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_sysparam.U
```

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```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:42 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_syscall.U

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?RCS: \$Id\$

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?RCS:

?RCS: \$Log: sysman.U,v \$

?RCS: Revision 3.0.1.2 1994/06/20 07:08:43 ram

?RCS: patch30: now explicitly states that /usr/man/man1 is the default

?RCS: patch30: added /usr/local/man/man1 to the search list

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:13:50 ram

?RCS: patch10: added support for /local/man/man1 (WAD)

?RCS: patch10: added temporary syspath variable to cut down on line length

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:55 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:sysman: test

Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:sysman:

?S: This variable holds the place where the manual is located on this

?S: system. It is not the place where the user wants to put his manual

?S: pages. Rather it is the place where Configure may look to find manual

?S: for unix commands (section 1 of the manual usually). See mansrc.

?S:.

?T:syspath

: determine where manual pages are on this system

echo " "

case "\$sysman" in

")

syspath=/usr/share/man/man1 /usr/man/man1'

syspath="\$syspath /usr/man/mann /usr/man/man1 /usr/man/local/man1"

syspath="\$syspath /usr/man/u\_man/man1 /usr/share/man/man1"

syspath="\$syspath /usr/catman/u\_man/man1 /usr/man/l\_man/man1"

syspath="\$syspath /usr/local/man/u\_man/man1 /usr/local/man/l\_man/man1"

syspath="\$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"

```

sysman=`./loc ./usr/man/man1 $syspath`
;;
esac
if $test -d "$sysman"; then
echo "System manual is in $sysman." >&4
else
echo "Could not find manual pages in source form." >&4
fi

```

#### Found

in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sysman.U

```

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```

?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2 1995/07/25 14:08:49 ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1 1993/09/09 11:49:51 ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:57 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:%<:#$d_volatile HASVOLATILE /**/

```



```

?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
typedef struct _goo_struct goo_struct;
goo_struct * volatile goo = ((goo_struct *)0);
struct _goo_struct {
    long long_int;
    int reg_int;
    char char_var;
};
typedef unsigned short foo_t;
char *volatile foo;
volatile int bar;
volatile foo_t blech;
foo = foo;
}
EOCP
if $cc
-c $ccflags try.c >/dev/null 2>&1 ; then
val="$define"
echo "Yup, it does."
else
val="$undef"
echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/d_volatile.U
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?RCS: $Id$

```

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?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_isnanl: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_isnanl:  
?S: This variable conditionally defines the HAS\_ISNANL symbol, which  
?S: indicates to the C program that the isnanl() routine is available.  
?S:.  
?C:HAS\_ISNANL:  
?C: This symbol, if defined, indicates that the isnanl routine is  
?C: available to check whether a long double is a NaN.  
?C:.  
?H:#\$d\_isnanl HAS\_ISNANL /\*\*/  
?H:.  
?LINT:set d\_isnanl  
: see if isnanl exists  
set isnanl d\_isnanl  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_isnanl.U

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?RCS: \$Id: i\_systable.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
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?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_systable.U,v \$  
?RCS: Revision 3.0.1.1 1993/10/16 13:50:20 ram  
?RCS: patch12: created  
?RCS:  
?RCS:  
?MAKE:i\_systable: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_systable:  
?S: This variable conditionally defines the I\_SYS\_TABLE symbol, and  
?S: indicates whether a C program should include <sys/table.h>.

?S:  
?C:I\_SYS\_TABLE:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <sys/table.h> for the OSF/1 table() system call.  
?C:  
?H:#\$i\_systable  
I\_SYS\_TABLE /\*\*/  
?H:  
?LINT:set i\_systable  
: see if this is an OSF sys/table system  
set sys/table.h i\_systable  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_systable.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_madvise: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_madvise:  
?S: This variable conditionally defines HAS\_MADVISE if madvise() is  
?S: available to map a file into memory.  
?S:  
?C:HAS\_MADVISE:  
?C: This symbol, if defined, indicates that the madvise system call is  
?C: available to map a file into memory.  
?C:  
?H:#\$d\_madvise HAS\_MADVISE /\*\*/  
?H:  
?LINT:set d\_madvise  
: see if madvise exists  
set madvise d\_madvise  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_madvise.U

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```
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?RCS:
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?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_copysign.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:14:17 ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
```

?MAKE:d\_mkfifo: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mkfifo:  
?S: This variable conditionally defines the HAS\_MKFIFO symbol, which  
?S: indicates to the C program that the mkfifo() routine is available.  
?S:.  
?C:HAS\_MKFIFO :  
?C: This symbol, if defined, indicates that the mkfifo  
routine is  
?C: available to create FIFOs. Otherwise, mknod should be able to  
?C: do it for you. However, if mkfifo is there, mknod might require  
?C: super-user privileges which mkfifo will not.  
?C:.  
?H:#\$d\_mkfifo HAS\_MKFIFO /\*\*/  
?H:.  
?LINT:set d\_mkfifo  
: see if mkfifo exists  
set mkfifo d\_mkfifo  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_mkfifo.U

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?RCS:

?MAKE:d\_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbn:

?S: This variable conditionally defines the HAS\_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS\_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

?H:#\$d\_scalbn HAS\_SCALBN /\*\*/  
?H:.

?LINT:set d\_scalbn

: see if scalbn exists

set scalbn d\_scalbn

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_scalbn.U

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?RCS: \$Id: d\_getservprotos.U,v \$

?RCS:

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?RCS:

?MAKE:d\_getservprotos : Hasproto i\_netdb

?MAKE: -pick add \$@ %<

?S:d\_getservprotos:

?S: This variable conditionally defines the HAS\_GETSERV\_PROTOS symbol,

?S: which indicates to the C program that <netdb.h> supplies

?S: prototypes for the various getserv\*() functions.

?S: See also netdbtype.U for probing for various netdb types.

?S:.

?C:HAS\_GETSERV\_PROTOS:

?C: This symbol, if defined, indicates that <netdb.h> includes

?C: prototypes for getservent(), getservbyname(), and

?C: getservbyaddr(). Otherwise,

it is up to the program to guess

?C: them. See netdbtype.U for probing for various Netdb\_XXX\_t types.

?C:.

?H:#\$d\_getservprotos HAS\_GETSERV\_PROTOS /\*\*/

?H:.

?LINT:set d\_getservprotos

: see if prototypes for various getservxxx netdb.h functions are available

echo " "

set d\_getservprotos getservent \$i\_netdb netdb.h

eval \$hasproto

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/protos/d\_getservprotos.U

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?RCS:

```

?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define") echo "Yes, it does." ;;
*)
    echo "No, it doesn't." ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_fs_data_s.U

```

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?RCS:

?MAKE:gidsize: Myread Typedef gidtype Compile run i\_stdlib

?MAKE: -pick add \$@ %<

?S:gidsize:

?S: This variable contains the size of a gidtype in bytes.

?S:.

?C:Gid\_t\_size:

?C: This symbol holds the size of a Gid\_t in bytes.

?C:.

?H:#define Gid\_t\_size \$gidsize /\* GID size \*/

?H:.

```

?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*) zzz="gid" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#ifdef I_STDLIB
#include
<stdlib.h>
#endif
int main() {
    printf("%d\n", (int)sizeof($gidtype));
    exit(0);
}
EOCP
set try
if eval $compile_ok; then
yyy=`$run ./try`
case "$yyy" in
") gidsize=4
    echo "(I can't execute the test program--guessing $gidsize.)" >&4
    ;;
*) gidsize=$yyy
    echo "Your $zzz is $gidsize bytes long."
    ;;
esac
else
gidsize=4
echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/gidsize.U
```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extract.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:52 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a shell script which can be doted in order to extract

?X: .SH files with variable substitutions.

?X:

?X: When running Configure from a remote directory (\$src

is not !),

?X: then the files will be created in that directory, so beware!

?X:

?MAKE:Extract: Mkdirp src

?MAKE: -pick add \$@ %<

?F:./extract

?T:CONFIG SRC dir file

: script used to extract .SH files with variable substitutions

```

cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
  set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH`
else
  echo "(Looking for .SH files under the source directory.)"
  set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
  shift
fi
for file in $*; do

```

```

case "$SRC" in
".")
case "$file" in
*/*)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\^(.*)'`
(cd $dir && . ./file)
;;
*)
. ./file
;;
esac
;;
*)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X: ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X: -- RAM, 18/03/96
?X:
case "$file" in
*/*)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\^(.*)'`
./mkdirp $dir
sh <"$SRC/$dir/$file"
;;
*)
sh <"$SRC/$file"
;;
esac
;;
esac
done
if

```

```
test -f "$SRC/config_h.SH"; then
if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
fi
fi
EOS
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Extract.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:30:10 ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:08 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
  lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
```

```

?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype /* <offset> type */
?H:#define LSEEKSIZE $lseeksize /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
set off_t lseektype
long stdio.h sys/types.h
eval $typedef_ask

echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
    printf("%d\n", (int)sizeof($lseektype));
    return(0);
}
EOCP
set try
if eval $compile_ok; then
    lseeksize=`$run ./try`
    echo "Your file offsets are $lseeksize bytes long."
else
    dflt=$longsize
    echo " "
    echo "(I can't seem to compile the test program. Guessing...)"
    rp="What is the size of your file offsets (in bytes)?"
    ./myread
    lseeksize="$ans"
fi
$rm_try

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/lseektype.U
No license file was found, but licenses were detected in source scan.

```

?RCS: \$Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extract.U,v \$

?X:

?X: This unit produces a shell script which can be run in order to emit  
?X: an important warning to the user, which will be remembered and shown  
?X: at the end of the Configure run as well.

?X:

?X: A typical use would be:

?X:

?X: ./warn <<EOM

?X: Problem with your C compiler: can't turn debugging on.

?X: EOM

?X:

?X: or:

?X:

?X: ./warn "Problem with your C compiler: can't turn debugging on."

?X:

?X: Which will both display to the user:

?X:

?X: \*\*\*

WARNING:

?X: \*\*\* Problem with your C compiler: can't turn debugging on.

?X: \*\*\*

?X:

?MAKE:Warn: startsh eunicefix

?MAKE:-pick add \$@ %<

?F:./warn

: script used to emit important warnings

cat >warn <<EOS

\$startsh

?X: Read the whole warning message from stdin into a temporary file

?X: when no argument was supplied.

```
if test $# -gt 0; then
  echo "\$@" >msg
else
  cat >msg
fi
```

?X: Emit the warning, prefixing all lines with '\*\*\* '

```
echo "*** WARNING:" >&4
```

```
sed -e 's/^/***/' <msg >&4
echo "**** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$unicefix warn
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Warn.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strftime:

?S: This variable conditionally defines the HAS\_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS\_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d\_strftime HAS\_STRFTIME /\*\*/

?H:.

?LINT:set d\_strftime

: see if strftime exists

set strftime d\_strftime

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strftime.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Oldsym.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:06:58 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:13 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit follows the creation of the config.sh file. It adds some  
?X: special symbols: defines from patchlevel.h file if any and CONFIG,  
?X: which is set to true. Then, we try to keep all the new symbols that  
?X: may come from a hint file or a previous config.sh file.

?X:

?MAKE:Oldsym:

Config\_sh Options test hint src sed sort uniq

?MAKE: -pick add \$@ %<

?T:CONFIG sym tmp

?F:!UU

: add special variables

\$test -f \$src/patchlevel.h && \

awk '/^#define/ {printf "%s=%s\n", \$2, \$3}' \$src/patchlevel.h >>config.sh

echo "CONFIG=true" >>config.sh

: propagate old symbols

if \$test -f UU/config.sh; then

?X: Make sure each symbol is unique in oldconfig.sh

<UU/config.sh \$sort | \$uniq >UU/oldconfig.sh

?X:

?X: All the symbols that appear twice come only from config.sh (hence the  
?X: two config.sh in the command line). These symbols will be removed by  
?X: the uniq -u command. The oldsyms file thus contains all the symbols  
?X: that did not appear in the produced config.sh (Larry Wall).

?X:

?X: Do not touch the -u flag of uniq. This means you too, Jarkko.

?X:

\$sed -n 's/^\([a-zA-Z\_0-9]\*\)=.\*/\1/p' \

config.sh config.sh UU/oldconfig.sh \

\$sort | \$uniq -u >UU/oldsyms

set X `cat UU/oldsyms`

shift

case \$# in

0) ;;

```

*)
cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
try to keep 'em...
EOM
echo ": Variables propagated from previous config.sh file." >>config.sh
for sym in `cat UU/oldsyms`; do
echo " Propagating $hint variable ""$""$sym..."
eval 'tmp=""${sym}""'
echo "$tmp" | \
sed -e "s/^\\""/g" -e "s/^\$sym=/'" -e "s/$/'" >>config.sh
done
;;
esac
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/Oldsym.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d\_accept4: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_accept4:

?S: This variable conditionally defines HAS\_ACCEPT4 if accept4() is

?S: available to accept socket connections.

?S:.

?C:HAS\_ACCEPT4:

?C: This symbol, if defined, indicates that the accept4 routine is

?C: available to accept socket connections.

?C:.

?H:#\$d\_accept4 HAS\_ACCEPT4 /\*\*/

?H:.

?LINT:set d\_accept4

: see if accept4 exists

set accept4 d\_accept4

eval \$inlibc

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

```



5.32.1~rc1/U/perl/d\_accept4.U

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/C/fake/getopt.C
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:13:39 ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:09:32 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
```

?S:d\_isascii:

?S: This variable conditionally defines the HAS\_ISASCII constant,

?S: which indicates

to the C program that isascii() is available.

?S:.

?C:HAS\_ISASCII:

?C: This manifest constant lets the C program know that isascii

?C: is available.

?C:.

?H:#\$d\_isascii HAS\_ISASCII /\*\*/

?H:.

?LINT:set d\_isascii

?X: Can't use Inlibc because isascii() might be a macro.

: Look for isascii

echo " "

\$cat >isascii.c <<EOCP

#include <stdio.h>

#include <ctype.h>

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include <stdlib.h>

#endif

int main() {

int c = 'A';

if (isascii(c))

exit(0);

else

exit(1);

}

EOCP

set isascii

if eval \$compile; then

echo "isascii() found." >&4

val="\$define"

else

echo "isascii() NOT found." >&4

val="\$undef"

fi

set d\_isascii

eval \$setvar

\$rm -f isascii\*

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d\_isascii.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
 ?RCS:  
 ?RCS: You may redistribute only under the terms of the Artistic Licence,  
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 ?RCS: that same Artistic Licence; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_mkdir.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:06:37 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:d\_mkdir: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_mkdir:  
 ?S: This variable conditionally defines the HAS\_MKDIR symbol, which  
 ?S: indicates to the C program that the mkdir() routine is available  
 ?S: to create directories..  
 ?S:.  
 ?C:HAS\_MKDIR (MKDIR):  
 ?C: This symbol, if defined, indicates that the mkdir routine is available  
 ?C: to create directories.  
 Otherwise you should fork off a new process to  
 ?C: exec /bin/mkdir.  
 ?C:.  
 ?H:#\$d\_mkdir HAS\_MKDIR /\*\*/  
 ?H:.  
 ?LINT:set d\_mkdir  
 : see if mkdir exists  
 set mkdir d\_mkdir  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_mkdir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
 ?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_fpclass: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fpclass:

?S: This variable conditionally defines the HAS\_FPCLASS symbol, which  
?S: indicates to the C program that the fpclass() routine is available.

?S:.

?C:HAS\_FPCLASS:

?C: This symbol, if defined, indicates that the fpclass routine is

?C: available to classify doubles. Available for example in Solaris/SVR4.

?C: The returned values are defined in <ieeefp.h> and are:

?C:

?C: FP\_SNAN signaling NaN

?C: FP\_QNAN quiet NaN

?C: FP\_NINF negative infinity

?C: FP\_PINF positive infinity

?C: FP\_NDENORM negative denormalized non-zero

?C: FP\_PDENORM positive denormalized non-zero

?C: FP\_NZERO negative zero

?C: FP\_PZERO positive zero

?C: FP\_NNORM negative normalized

non-zero

?C: FP\_PNORM positive normalized non-zero

?C:.

?H:#\$d\_fpclass HAS\_FPCLASS /\*\*/

?H:.

?LINT:set d\_fpclass

: see if fpclass exists

set fpclass d\_fpclass

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fpclass.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Obsol\_sh.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Obsol\_sh.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:11 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This file is prepended to .MT/Obsol\_sh if that file is not empty. That file

?X: contains the necessary mappings of new symbols to obsolete ones.

?X:

?MAKE:Obsol\_sh:

?MAKE: -pick prepend \$@ ./Obsol\_sh

?LINT:nocomment

#

# The following symbols are obsolete. They are mapped to the new

# symbols only to ease the transition process. The

sources should be

# updated so as to use the new symbols only, since supporting of those

# obsolete symbols may end without notice.

#

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Obsol\_sh.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getgrent.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: d\_getgrent.U,v \$

?RCS:

?MAKE:d\_getgrent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getgrent:

?S: This variable conditionally defines the HAS\_GETGRENТ symbol, which

?S: indicates to the C program that the getgrent() routine is available

?S: for sequential access of the group database.

?S:.

?C:HAS\_GETGRENТ:

?C: This symbol, if defined, indicates that the getgrent routine is

?C: available for sequential access of the group database.

?C:.

?H:#\$d\_getgrent HAS\_GETGRENТ /\*\*/

?H:.

?LINT:set d\_getgrent

: see if getgrent exists

set getgrent d\_getgrent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getgrent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:intsize longsize shortsize: Assert Myread cat rm\_try +cc +ccflags echo n c

?MAKE: -pick add \$@ %<

?S:intsize:

?S: This variable contains the value of the INTSIZE symbol, which

?S: indicates to the C program how many bytes there are in an int.

?S:.

?S:longsize:

?S: This variable contains the value of the LONGSIZE symbol, which

?S: indicates to the C program how many bytes there are in a long.

?S:.

?S:shortsize:

?S: This variable contains the value of the SHORTSIZE symbol which

?S: indicates to the

C program how many bytes there are in a short.

?S:.

?C:INTSIZE:

?C: This symbol contains the value of sizeof(int) so that the C

?C: preprocessor can make decisions based on it.

?C:.

?C:LONGSIZE:

?C: This symbol contains the value of sizeof(long) so that the C

?C: preprocessor can make decisions based on it.

?C:.

?C:SHORTSIZE:

?C: This symbol contains the value of sizeof(short) so that the C

?C: preprocessor can make decisions based on it.

?C:.

?H:#define INTSIZE \$intsize

?H:#define LONGSIZE \$longsize

?H:#define SHORTSIZE \$shortsize

?H:.

?T:types t size var

?LINT: set shortsize intsize longsize

: check for lengths of integral types

echo " "

types="

```

@if SHORTSIZE || shortsize
types="$types short"
@end
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
  $echo $n "Checking to see how big your ${t}s are...$c" >&4
  for size in 2 4 8 16 error; do
    $cat >try.c <<EOCP
#include "static_assert.h"
$t foo;
int main()
{
  STATIC_ASSERT($size
== sizeof(foo));
  return 0;
}
EOCP
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
var=${t}size
case "$size" in
error)
  echo " cannot compute it." >&4
case $t in
short) dflt=2;;
int) dflt=4;;
long) dflt=4;;
esac
rp="What is the size of the \"${t}\" type (in bytes)?"
./myread
eval $var="$ans"
;;
*)
echo " $size bytes." >&4
eval $var=$size
;;
esac
done
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/intsize.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'. This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/Loc_ar.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
```



?S: available to close whatever was being used for service queries.

?S:.

?C:HAS\_ENDSERVENT:

?C: This symbol, if defined, indicates that the endservent() routine is

?C: available to close whatever was being used for  
service queries.

?C:.

?H:#\$d\_endsent HAS\_ENDSERVENT /\*\*/

?H:.

?LINT:set d\_endsent

: see if endservent exists

set endservent d\_endsent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_endsent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_fgetpos.U,v \$

?RCS: Revision 3.0.1.1 1994/06/20 06:57:33 ram

?RCS: patch30: created

?RCS:

?MAKE:d\_fgetpos: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fgetpos:

?S: This variable conditionally defines HAS\_FGETPOS if fgetpos() is

?S: available to get the file position indicator.

?S:.

?C:HAS\_FGETPOS:

?C: This symbol, if defined, indicates that the fgetpos routine is

?C: available to get the file position indicator, similar to ftell().

?C:.

?H:#\$d\_fgetpos

HAS\_FGETPOS /\*\*/

?H:.

?LINT:set d\_fgetpos

: see if fgetpos exists

```
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_fgetpos.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_union\_semun.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: d\_union\_semun.U,v \$

?RCS:

?MAKE:d\_union\_semun d\_semctl\_semun d\_semctl\_semid\_ds: Compile Setvar Myread run \  
cat rm\_try d\_sem

?MAKE: -pick add \$@ %<

?S:d\_union\_semun:

?S: This variable conditionally defines HAS\_UNION\_SEMUN if the

?S: union semun is defined by including <sys/sem.h>.

?S:.

?S:d\_semctl\_semun:

?S: This variable conditionally defines USE\_SEMCTL\_SEMUN, which

?S: indicates that union semun is to be used for semctl IPC\_STAT.

?S:.

?S:d\_semctl\_semid\_ds:

?S: This variable conditionally defines USE\_SEMCTL\_SEMID\_DS, which

?S: indicates that struct semid\_ds \* is to be used for semctl IPC\_STAT.

?S:.

?C:HAS\_UNION\_SEMUN:

?C: This symbol, if defined, indicates that the union semun  
is

?C: defined by including <sys/sem.h>. If not, the user code

?C: probably needs to define it as:

?C: union semun {

?C: int val;

?C: struct semid\_ds \*buf;

?C: unsigned short \*array;

?C: }

?C:.

?C:USE\_SEMCTL\_SEMUN:

?C: This symbol, if defined, indicates that union semun is

?C: used for semctl IPC\_STAT.

?C:.

?C:USE\_SEMCTL\_SEMID\_DS:

?C: This symbol, if defined, indicates that struct semid\_ds \* is

?C: used for semctl IPC\_STAT.

?C:.

?H:#\$d\_union\_semun HAS\_UNION\_SEMUN /\*\*/

?H:#\$d\_semctl\_semun USE\_SEMCTL\_SEMUN /\*\*/

?H:#\$d\_semctl\_semid\_ds USE\_SEMCTL\_SEMID\_DS /\*\*/

?H:.

?T:xxx also

?F:!try !tryh.h

?LINT: set d\_union\_semun d\_semctl\_semun d\_semctl\_semid\_ds

: see whether sys/sem.h defines union semun

echo " "

\$cat > try.c <<'END'

#include <sys/types.h>

#include <sys/ipc.h>

#include <sys/sem.h>

int main () { union semun semun; semun.buf = 0; }

END

set try

if eval \$compile; then

    echo "You have union semun in <sys/sem.h>." >&4

    val="\$define"

else

    echo "You do not have union

semun in <sys/sem.h>." >&4

    val="\$undef"

fi

\$rm\_try

set d\_union\_semun

eval \$setvar

: see how to do semctl IPC\_STAT

case "\$d\_sem" in

\$define)

    echo " "

?X: use tryh.h instead of try.h because \$rm\_try cleans up try.\*

    \$cat > tryh.h <<END

#ifndef S\_IRUSR

#  ifdef S\_IREAD

#  define S\_IRUSR S\_IREAD

#  define S\_IWUSR S\_IWRITE

#  define S\_IXUSR S\_IEXEC

#  else

#  define S\_IRUSR 0400

#  define S\_IWUSR 0200

#  define S\_IXUSR 0100

#  endif

#  define S\_IRGRP (S\_IRUSR>>3)

```

# define S_IWGRP (S_IWUSR>>3)
# define S_IXGRP (S_IXUSR>>3)
# define S_IROTH (S_IRUSR>>6)
# define S_IWOTH (S_IWUSR>>6)
# define S_IXOTH (S_IXUSR>>6)
#endif
#ifndef S_IRWXU
# define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
# define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
# define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
END
: see whether semctl IPC_STAT can use union semun
case "$d_semctl_semun" in
")
    val="$undef"
    $cat > try.c <<END
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include
<sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
    union semun
#ifndef HAS_UNION_SEMUN
    {
    int val;
    struct semid_ds *buf;
    unsigned short *array;
    }
#endif
    arg;
    int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
    sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
    if (sem > -1) {
    struct semid_ds argbuf;
    arg.buf = &argbuf;
# ifdef IPC_STAT

```

```

st = semctl(sem, 0, IPC_STAT, arg);
if (st == 0)
    printf("semun\n");
else
# endif /* IPC_STAT */
    printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
    printf("semctl IPC_RMID failed: errno = %d\n", errno);
    } else
#endif /* IPC_PRIVATE && ... */
printf("semget failed: errno = %d\n", errno);
return 0;
}
END
    set try

if eval $compile; then
xxx=`$run ./try`
    case "$xxx" in
        semun) val="$define" ;;
    esac
fi
$rm_try
set d_semctl_semun
eval $setvar
;;
esac
case "$d_semctl_semun" in
$define)
    echo "You can use union semun for semctl IPC_STAT." >&4
also='also'
    ;;
*) echo "You cannot use union semun for semctl IPC_STAT." >&4
also=""
    ;;
esac

: see whether semctl IPC_STAT can use struct semid_ds pointer
case "$d_semctl_semid_ds" in
")
    val="$undef"
    $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>

```

```

#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
int main() {
    union semun
#ifdef HAS_UNION_SEMUN
    {
    int val;
    struct semid_ds *buf;
    unsigned short *array;
    }
#endif
    arg;
    struct semid_ds argbuf;
    int sem, st;

#ifdef IPC_PRIVATE && defined(S_IRWXU) && defined(S_IRWXG)
&& defined(S_IRWXO) && defined(IPC_CREAT)
    sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
    if (sem > -1) {
        arg.buf = &argbuf;
#ifdef IPC_STAT
        st = semctl(sem, 0, IPC_STAT, arg);
        if (st == 0)
            printf("semid_ds\n");
        else
#ifdef IPC_STAT */
            printf("semctl IPC_STAT failed: errno = %d\n", errno);
#ifdef IPC_RMID
        if (semctl(sem, 0, IPC_RMID, arg) != 0)
#ifdef IPC_RMID */
            printf("semctl IPC_RMID failed: errno = %d\n", errno);
        } else
#ifdef IPC_PRIVATE && ... */
        printf("semget failed: errno = %d\n", errno);

        return 0;
    }
END
    set try
    if eval $compile; then
        xxx=`$run ./try`
        case "$xxx" in
            semid_ds) val="$define" ;;
        esac

```

```

fi
$rm_try
set d_semctl_semids
eval $setvar
;;
esac
case "$d_semctl_semids" in
$define)
    echo "You can $also use struct semids* for semctl IPC_STAT." >&4
    ;;
*) echo "You cannot use
struct semids* for semctl IPC_STAT." >&4
    ;;
esac
;;
*) val="$undef"

```

```

# We do not have the full sem*(2) library, so assume we can not
# use either.

```

```

set d_semctl_semun
eval $setvar

set d_semctl_semids
eval $setvar
;;
esac
$rm_try tryh.h

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/d_union_semun.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999, Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: vendorhtml1dir.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```

?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages. It may have a ~ on the front.
?S: The standard distribution will put nothing in this
directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent. See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
vendorhtml1direxp="
;;
*) : determine where vendor-supplied html pages go.
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
: XXX Better default suggestions would be welcome.
case "$vendorhtml1dir"
in
") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
*) dflt=$vendorhtml1dir ;;
esac
case "$dflt" in
"| ") dflt=none ;;
esac
fn=dn+~
rp='Pathname for the vendor-supplied html pages?'
./getfile
vendorhtml1dir="$ans"
vendorhtml1direxp="$ansexp"

```



```
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
./installprefix
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorhtml1dir.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:15 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_setruid.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV /**/
?H:.
?LINT:set
d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_pwritev.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

?RCS: \$Log: nblock\_io.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 16:17:14 ram  
?RCS: patch61: simplify here document for shells that can't handle them well  
?RCS: patch61: force use of "startsh" at the head of the generated script  
?RCS: patch61: added new files to the ?F: metalint hint  
?RCS:  
?RCS: Revision 3.0.1.1 1995/07/25 14:13:22 ram  
?RCS: patch56: created  
?RCS:  
?X:  
?X: Simplify here document for shells that can't handle them well.  
?X: (Problem reported on FreeBSD; it's unclear if this helps.) --AD  
?X:  
?MAKE:o\_nonblock  
eagain rd\_nodata d\_eofnblk: cat rm\_try +cc +ccflags +ldflags \  
d\_open3 h\_sysfile h\_fcntl signal\_t hint Oldconfig Setvar startsh Warn  
?MAKE: -pick add \$@ %<  
?S:o\_nonblock:  
?S: This variable bears the symbol value to be used during open() or fcntl()  
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch  
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,  
?S: but that is only supported by some devices.  
?S:.  
?S:eagain:  
?S: This variable bears the symbolic errno code set by read() when no  
?S: data is present on the file and non-blocking I/O was enabled (otherwise,  
?S: read() blocks naturally).  
?S:.  
?S:rd\_nodata:  
?S: This variable holds the return code from read() when no data is  
?S: present. It should be -1, but some systems return 0 when O\_NDELAY is  
?S: used, which is a shame because you cannot make the difference between  
?S: no data and an EOF.. Sigh!  
?S:.  
?S:d\_eofnblk:  
?S: This variable conditionally defines EOF\_NONBLOCK  
if EOF can be seen  
?S: when reading from a non-blocking I/O source.  
?S:.  
?C:VAL\_O\_NONBLOCK:  
?C: This symbol is to be used during open() or fcntl(F\_SETFL) to turn on  
?C: non-blocking I/O for the file descriptor. Note that there is no way  
?C: back, i.e. you cannot turn it blocking again this way. If you wish to  
?C: alternatively switch between blocking and non-blocking, use the  
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.  
?C:.  
?C:VAL\_EAGAIN:  
?C: This symbol holds the errno error code set by read() when no data was

?C: present on the non-blocking file descriptor.

?C:.

?C:RD\_NODATA:

?C: This symbol holds the return code from read() when no data is present

?C: on the non-blocking file descriptor. Be careful! If EOF\_NONBLOCK is

?C: not defined, then you can't distinguish between no data and EOF by

?C: issuing a read(). You'll have to find another way to tell for sure!

?C:.

?C:EOF\_NONBLOCK:

?C: This symbol, if defined, indicates to the C program that a read() on

?C: a

non-blocking file descriptor will return 0 on EOF, and not the value

?C: held in RD\_NODATA (-1 usually, in that case!).

?C:.

?H:#define VAL\_O\_NONBLOCK \$o\_nonblock

?H:#define VAL\_EAGAIN \$eagain

?H:#define RD\_NODATA \$rd\_nodata

?H:#\$d\_eofnblk EOF\_NONBLOCK

?H:.

?F:!try !try.out !try.ret !try.err !mtry

?T:status

?LINT:use d\_open3

: check for non-blocking I/O stuff

case "\$h\_sysfile" in

true) echo "#include <sys/file.h>" > head.c;;

\*)

case "\$h\_fcntl" in

true) echo "#include <fcntl.h>" > head.c;;

\*) echo "#include <sys/fcntl.h>" > head.c;;

esac

;;

esac

echo " "

echo "Figuring out the flag used by open() for non-blocking I/O..." >&4

case "\$o\_nonblock" in

")

\$cat head.c > try.c

\$cat >>try.c <<'EOCP'

int main() {

#ifdef O\_NONBLOCK

printf("O\_NONBLOCK\n");

exit(0);

#endif

#ifdef O\_NDELAY

printf("O\_NDELAY\n");

exit(0);

#endif

?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions

?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).

```
#ifndef FNDELAY
printf("FNDELAY\n");
exit(0);
#endif
exit(0);
}
EOCP
if
$cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
o_nonblock=`./try`
case "$o_nonblock" in
") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
*) echo "Seems like we can use $o_nonblock.";;
esac
else
echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
fi
;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$again" in
")
$cat head.c > try.c
$cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
$cat >> try.c <<'EOCP'
int main()
{
int pd[2];
int pu[2];
char buf[1];
char string[100];

pipe(pd); /* Down: child -> parent */
pipe(pu); /* Up: parent -> child */
if (0 != fork()) {
int ret;
```

```

close(pd[1]); /* Parent reads from pd[0] */
close(pu[0]); /*
Parent writes (blocking) to pu[1] */
if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
    exit(1);
signal(SIGALRM, blech);
alarm(5);
if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
    exit(2);
sprintf(string, "%d\n", ret);
write(2, string, strlen(string));
alarm(0);
#ifdef EAGAIN
if (errno == EAGAIN) {
    printf("EAGAIN\n");
    goto ok;
}
#endif
#ifdef EWOULDBLOCK
if (errno == EWOULDBLOCK)
    printf("EWOULDBLOCK\n");
#endif
ok:
write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
sleep(2); /* Give it time to close our pipe */
alarm(5);
ret = read(pd[0], buf, 1); /* Should read EOF */
alarm(0);
sprintf(string, "%d\n", ret);
write(3, string, strlen(string));
exit(0);
}

close(pd[0]); /* We write to pd[1] */
close(pu[1]); /* We read from pu[0] */
read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
close(pd[1]); /* Pipe pd is now fully closed! */
exit(0); /* Bye bye, thank you for playing!
*/
}
EOCP
if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
echo "$startsh" >mtry
echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
chmod +x mtry
./mtry >/dev/null 2>&1
case $? in

```

```

0) eagain=`$cat try.out`;;
1) echo "Could not perform non-blocking setting!";;
2) echo "I did a successful read() for something that was not there!";;
3) echo "Hmm... non-blocking I/O does not seem to be working!";;
*) echo "Something terribly wrong happened during testing.";;
esac
rd_nodata=`$cat try.ret`
echo "A read() system call with no data present returns $rd_nodata."
case "$rd_nodata" in
0|-1) ;;
*)
echo "(That's peculiar, fixing that to be -1.)"
rd_nodata=-1
;;
esac
case "$eagain" in
")
echo "Forcing errno EAGAIN on read() with no data available."
eagain=EAGAIN
;;
*)
echo "Your read() sets errno to $eagain when no data is available."
;;
esac
status=`$cat
try.err`
case "$status" in
0) echo "And it correctly returns 0 to signal EOF.";;
-1) echo "But it also returns -1 to signal EOF, so be careful!";;
*) echo "However, your read() returns '$status' on EOF??";;
esac
val="$define"
if test "$status" = "$rd_nodata"; then
./warn "your read() can't distinguish between EOF and no data!"
val="$undef"
fi
else
echo "I can't compile the test program--assuming errno EAGAIN will do."
eagain=EAGAIN
fi
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
echo "Your read() returns $rd_nodata when no data is present."
case "$d_eofnblk" in
"$define") echo "And you can see EOF because read() returns 0.";;

```

```

"$undef") echo "But you can't see EOF status from read() returned value.>";
*)
?X: Should not happen, but if it does, assume the worst!
    echo "(Assuming you can't see EOF status from read anyway.)"
    d_eofnblk=$undef
    ;;
esac
;;
esac
$rm_try head.c mtry

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/nblock_io.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:31 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
$src/patchlevel.h;then
patchlevel=`awk \
/^#[ ]*define[ ]+[*]PATCHLEVEL/ {print $3}' \
< $src/patchlevel.h`

```



```
else
  patchlevel=0
fi
echo "(You have $package $baserev PL,$patchlevel.)"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/patchlevel.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_psignal.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:06:49 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_psignal: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_psignal:
```

```
?S: This variable conditionally defines the HAS_P SIGNAL symbol, which
```

```
?S: indicates that the psignal() routine exists. The psignal() routine
```

```
?S: prints a description of a signal on the standard error output.
```

```
?S:.
```

```
?C:HAS_P SIGNAL (P SIGNAL):
```

```
?C: This symbol, if defined, indicates
```

```
that the psignal() routine exists.
```

```
?C:.
```

```
?H:#$d_psignal HAS_P SIGNAL /**/
```

```
?H:.
```

```
?LINT:set d_psignal
```

```
: see if psignal exists
```

```
set psignal d_psignal
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_psignal.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
```

?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_passwd.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 15:37:21 ram  
?RCS: patch61: useless unit dropped.  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:09:51 ram  
?RCS: patch32: created by ADO  
?RCS:  
?X:  
?X: Useless unit dropped.  
?X:  
?LINT:empty

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_passwd.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1998, Jarkko Hietaniemi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:i\_syssecrets: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_syssecrets:  
?S: This variable conditionally defines the I\_SYS\_SECURITY symbol,  
?S: and indicates whether a C program should include <sys/security.h>.  
?S:.  
?C:I\_SYS\_SECURITY:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <sys/security.h>.  
?C:.

?H:#\$i\_syssecre I\_SYS\_SECURITY /\*\*/

?H:.

?LINT:set i\_syssecre

: see if sys/security.h is available

set sys/security.h i\_syssecre

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/acl/i\_syssecre.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_dlsymun.U,v \$

?RCS:

?RCS: Copyright (c) 1996-1998, Andy Dougherty

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: d\_dlsymun.U,v \$

?RCS:

?RCS:

?MAKE:d\_dlsymun: cat cc cflags ldflags ld rm Setvar dsrc i\_dlfcn i\_stdlib \  
cccdlflags ccdlflags lddlflags libs dlext \_o run to

?MAKE: -pick add \$@ %<

?X: This is specific to perl5.

?S:d\_dlsymun:

?S: This variable conditionally defines DLSYM\_NEEDS\_UNDERSCORE, which

?S: indicates that we need to prepend an underscore to the symbol

?S: name before calling dlsym().

?S:.

?C:DLSYM\_NEEDS\_UNDERSCORE:

?C: This symbol, if defined, indicates that we need to prepend an

?C: underscore to the symbol name before calling dlsym(). This only

?C: makes sense if you \*have\* dlsym, which we will presume is the

?C: case if you're using dl\_dlopen.xs.

?C:.

?H:#\$d\_dlsymun DLSYM\_NEEDS\_UNDERSCORE /\*\*/

?H:.

?LINT:set

d\_dlsymun

?T: xxx

?F:!fred

: Check if dlsym need a leading underscore

echo " "

val="\$undef"

case "\$dsrc" in

```

dl_dlopen.xs)
echo "Checking whether your dlsym() needs a leading underscore ..." >&4
$cat >dyna.c <<'EOM'
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef I_DLFCN
#include <dlfcn.h> /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
#include <nlist.h>
#include <link.h>
#endif

extern int fred();

int main()
{
    void * handle ;
    void * symbol ;
#ifdef RTLD_LAZY
    int mode = 1 ;
#else
    int mode = RTLD_LAZY ;
#endif
    handle = dlopen("./dyna.$dlex", mode) ;
    if (handle == NULL) {
        printf ("1\n") ;
        fflush (stdout) ;
        exit(0);
    }
    symbol = dlsym(handle, "fred") ;
    if (symbol == NULL) {
        /* try putting a leading underscore */
        symbol = dlsym(handle, "_fred") ;
        if (symbol ==
        NULL) {
            printf ("2\n") ;
            fflush (stdout) ;
            exit(0);

```

```

}
printf ("3\n");
}
else
printf ("4\n");
flush (stdout);
exit(0);
}
EOM
: Call the object file tmp-dyna.o in case dlext=o.
if $cc $cflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
$ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
$cc -o fred $cflags $ldflags $cccdlflags $ccdflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
xxx=`$run ./fred`
case $xxx in
1) echo "Test program failed using dlopen." >&4
echo "Perhaps you should not use dynamic loading." >&4;;
2) echo "Test program failed using dlsym." >&4
echo "Perhaps you should not use dynamic loading." >&4;;
3) echo "dlsym needs a leading underscore" >&4
val="$define" ;;
4) echo "dlsym doesn't need a leading underscore." >&4;;
esac
else
echo "I can't compile and run the test program." >&4
echo "I'm guessing that dlsym
doesn't need a leading underscore." >&4
fi
;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_dlsymun.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: yacc.U,v \$  
?RCS: Revision 3.0.1.1 1994/05/13 15:28:48 ram  
?RCS: patch27: added byacc as another alternative (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:10:03 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test  
?MAKE: -pick add \$@ %<  
?S:yacc:  
?S: This variable holds the name of the compiler compiler we  
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.  
?S:.  
?S:yaccflags:  
?S: This variable contains any  
additional yacc flags desired by the  
?S: user. It is up to the Makefile to use this.  
?S:.  
?T:comp  
: determine compiler compiler  
echo " "  
comp='yacc'  
if \$test -f "\$byacc\$\_exe"; then  
comp="byacc or \$comp"  
fi  
if \$test -f "\$bison\$\_exe"; then  
comp="\$comp or bison -y"  
fi  
case "\$yacc" in  
")  
yacc=`./loc yacc yacc \$pth`  
if \$test -f "\$yacc\$\_exe"; then  
dflt='yacc'  
elif \$test -f "\$byacc\$\_exe"; then  
dflt='byacc'  
elif \$test -f "\$bison\$\_exe"; then  
dflt='bison'  
else  
dflt=""  
fi  
;;  
\*) dflt="\$yacc";;  
esac  
rp="Which compiler compiler (\$comp) shall I use?"

```

./myread
yacc="$ans"
case "$yacc" in
*bis*)
case "$yacc" in
*_y*) ;;
*)
yacc="$yacc -y"
echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
;;
esac
;;
esac

```

```

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

```

Your yacc program may need extra flags to normally process the parser sources. Do NOT specify any -d or -v flags here, since those are explicitly known by the various Makefiles. However, if your machine has strange/undocumented options (like -Sr# on SCO to specify the maximum number of grammar rules), then please add them here. To use no flags, specify the word "none".

```

EOH
rp="Any additional yacc flags?"
./myread
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

```

@end

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/yacc.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: sitelib.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 16:21:35 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \  
Oldconfig Prefixit test privlib package sed  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:sitelib:  
?S: This variable contains the eventual value of the SITELIB symbol,  
?S: which is the name of the private library for this package. It may  
?S: have a ~ on the front. It is up to the makefile to eventually create  
?S: this  
directory while performing installation (with ~ substitution).  
?S:.  
?S:sitelibexp:  
?S: This variable is the ~name expanded version of sitelib, so that you  
?S: may use it directly in Makefiles or shell scripts.  
?S:.  
?S:installsitelib:  
?S: This variable is really the same as sitelibexp but may differ on  
?S: those systems using AFS. For extra portability, only this variable  
?S: should be used in makefiles.  
?S:.  
?C:SITELIB:  
?C: This symbol contains the name of the private library for this package.  
?C: The library is private in the sense that it needn't be in anyone's  
?C: execution path, but it should be accessible by the world. The program  
?C: should be prepared to do ~ expansion.  
?C: The standard distribution will put nothing in this directory.  
?C: Individual sites may place their own extensions and modules in  
?C: this directory.  
?C:.  
?C:SITELIB\_EXP:  
?C: This symbol contains the ~name expanded version of SITELIB, to be used  
?C: in programs that are not prepared to deal with ~ expansion  
at run-time.  
?C:.  
?H:#define SITELIB "\$sitelib" /\*\*/  
?H:#define SITELIB\_EXP "\$sitelibexp" /\*\*/  
?H:.



```

?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//`
dflt="$privlib/site_${prog}" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

```

The installation process will also create a directory for site-specific extensions and modules. Some users find it convenient to place all local files in this directory rather than in the main distribution directory.

```

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
./getfile
if $test "X$sitelibexp" != "X$sansexp"; then
installsitelib="
fi
sitelib="$sans"
sitelibexp="$sansexp"
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which private files reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installsitelib" in
") dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#`";
*) dflt="$installsitelib";
esac
fn=de~
rp='Where will private files be installed?'
./getfile
installsitelib="$sans"
else
installsitelib="$sitelibexp"
fi

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sitelib.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:32:10 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
to declare length parameters
?C: for string functions. It is usually size_t, but may be
?C: unsigned long, int, etc. It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/sizetype.U

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize /**/
?H:.
?F:!try
: check for length of pointer
echo " "
case "$ptrsize" in
")
echo "Checking to see how big your pointers are..."
>&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
printf("%d\n", sizeof(char *));
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
dflt=`./try`
else
dflt='4'
echo "(I can't seem to compile the test program. Guessing...)"
fi
;;
*)
dflt="$ptrsize"
;;
esac
rp="What is the size of a pointer (in bytes)?"

```

```
./myread
ptrsize="$sans"
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/ptrsize.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_setprior.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:07:11 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_setprior: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_setprior:
```

```
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
```

```
?S: is available to set a process's priority.
```

```
?S:.
```

```
?C:HAS_SETPRIORITY (SETPRIORITY):
```

```
?C: This symbol, if defined, indicates that the setpriority routine is
```

```
?C: available to set a process's priority.
```

```
?C:.
```

```
?H:#$d_setprior
```

```
HAS_SETPRIORITY /**/
```

```
?H:.
```

```
?LINT:set d_setprior
```

```
: see if setpriority exists
```

```
set setpriority d_setprior
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_setprior.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:31:27 ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:33 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
?C: used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:
?H:#define Pid_t $pidtype /* PID type */
?H:
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
./myread
pidtype="$ans"

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/pidtype.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_charsprf.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:49 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_charsprf: cat rm +cc Setvar

?MAKE: -pick add \$@ %<

?S:d\_charsprf:

?S: This variable conditionally defines CHARSPRINTF if this system

?S: declares "char \*sprintf()" in stdio.h. The trend seems to be to

?S: declare it as "int sprintf()".

?S:.

?C:CHARSPRINTF:

?C: This symbol is defined if this system declares "char \*sprintf()" in

?C: stdio.h.

The trend seems to be to declare it as "int sprintf()". It

?C: is up to the package author to declare printf correctly based on the

?C: symbol.

?C:.

?H:#\$d\_charsprf CHARSPRINTF /\*\*/

?H:.

?F:!ucbsprf.c !ucbsprf

?LINT:set d\_charsprf

: see if sprintf is declared as int or pointer to char

echo " "

\$cat >ucbsprf.c <<'EOF'

```
int main()
{
  int sprintf();
  char buf[10];
  exit(((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
EOF
```

if \$cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then

echo "Your sprintf() returns (int)." >&4

val="\$undef"

else

echo "Your sprintf() returns (char\*)." >&4

val="\$define"

fi

set d\_charsprf

eval \$setvar

\$rm -f ucbsprf\*

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_charsprf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fp\_class: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fp\_class:

?S: This variable conditionally defines the HAS\_FP\_CLASS symbol, which

?S: indicates to the C program that the fp\_class() routine is available.

?S:.

?C:HAS\_FP\_CLASS:

?C: This symbol, if defined, indicates that the fp\_class routine is

?C: available to classify doubles. Available for example in Digital UNIX.

?C: The returned values are defined in <math.h> and are:

?C:

?C: FP\_SNAN        Signaling NaN (Not-a-Number)

?C: FP\_QNAN        Quiet NaN (Not-a-Number)

?C: FP\_POS\_INF     +infinity

?C: FP\_NEG\_INF     -infinity

?C: FP\_POS\_NORM    Positive normalized

?C: FP\_NEG\_NORM    Negative normalized

?C: FP\_POS\_DENORM  Positive denormalized

?C: FP\_NEG\_DENORM

    Negative denormalized

?C: FP\_POS\_ZERO    +0.0 (positive zero)

?C: FP\_NEG\_ZERO    -0.0 (negative zero)

?C:.

?H:#\$d\_fp\_class HAS\_FP\_CLASS /\*\*/

?H:.

?LINT:set d\_fp\_class

: see if fp\_class exists

set fp\_class d\_fp\_class

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fp\_class.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_nolnbuf.U,v \$  
?RCS: Revision 3.0.1.1 1994/05/06 14:46:07 ram  
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:06:43 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_nolnbuf: test +cc cat rm Setvar Myread  
?MAKE: -pick add \$@ %<  
?S:d\_nolnbuf:  
?S: This variable conditionally defines the NOLINEBUF symbol, which  
?S: indicates to the C program that stdout is not buffered, so that  
?S: the  
program can call setbuf() or setlinebuf() for efficiency.  
?S:.  
?C:NOLINEBUF:  
?C: This symbol, if defined, indicates that stdout is not buffered, so that  
?C: the program can call setbuf() or setlinebuf() for efficiency.  
?C:.  
?H:#\$d\_nolnbuf NOLINEBUF /\*\*/  
?H:.  
?T:xxx  
?F:!blurfl  
?LINT:set d\_nolnbuf  
: check for buffering of stdout  
echo " "  
case "\$d\_nolnbuf" in  
")  
\$cat <<'EOT' >blurfl.c  
#include <stdio.h>  
int main()  
{  
int i;  
  
for (i = 0; i < 5; i++) {  
putchar(i+'a');  
sleep(1);  
}  
putchar('\n');



```
}  
EOT  
$cc -o blurfl blurfl.c >/dev/null 2>&1;  
$rm -f blurfl.c  
$cat >&4 <<'EOM'  
Checking for buffering of stdout to terminal.
```

Observe the following characters as they are printed out, to see whether they print out all at once, or with a 1 second pause between each of them. If they print out one by one, you don't have buffering. If they print together (after about a 5 second pause), you do have buffering.

```
EOM  
dflt='Type return to start printing the test characters'  
rp="  
.br/>./myread  
xxx=y  
while $test "$xxx" = 'y'; do  
./blurfl 1>&4  
dflt=n  
rp='Would you like to see that again?'  
. ./myread  
case "$ans" in  
[yY]*) xxx="y";;  
*) xxx="n";;  
esac  
done  
dflt=y  
rp="Do you have buffering (printed all at once)?"  
. ./myread  
case "$ans" in  
n*) val="$define";;  
*) val="$undef";;  
esac  
;;  
*)  
case "$d_nolnbuf" in  
"$define") dflt=n;;  
*) dflt=y;;  
esac  
rp="Do you have buffering on stdout to terminals?"  
. ./myread  
case "$ans" in  
n*) val="$define";;  
*) val="$undef";;  
esac  
;;
```

```
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_nolnbuf.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
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```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: d_shm.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:07:17 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_shm:
```

```
?S: This variable conditionally defines the HAS_SHM symbol, which
```

```
?S: indicates that the entire shm*(2) library is present.
```

```
?S:.
```

```
?C:HAS_SHM:
```

```
?C: This symbol, if defined, indicates that the entire shm*(2) library is
```

```
?C: supported.
```

```
?C:.
```

```
?H:#$d_shm HAS_SHM /**/
```

```
?H:.
```

```
?T:h_shm
```

```
?LINT:set
```

```
d_shm
```

```
: see how much of the 'shm*(2)' library is present.
```

```
h_shm=true
```

```
echo " "
```

```
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
```

```
*"$undef"*) h_shm=false;;
```

```
esac
```

```
case "$osname" in
```

```
freebsd)
```

```
case "`ipcs 2>&1`" in
```

```
"SVID shared memory"*"not configured"*)
```

```

echo "Your $osname does not have the shm*(2) configured." >&4
    h_shm=false
val="$undef"
set shmctl d_shmctl
eval $setvar
set shmget d_shmget
eval $setvar
set shmat d_shmat
eval $setvar
set shmdt d_shmdt
eval $setvar
;;
    esac
;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
    echo "You have the full shm*(2) library." >&4
    val="$define"
else
    echo "You don't have the full shm*(2) library." >&4
    val="$undef"
fi
set d_shm
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/d_shm.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Oldsym.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:06:58 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:13 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

```

?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[ ]+PERL_/ {printf "%s=%s\n", $2, $3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
<UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq. This means you too, Jarkko.
?X:
$sed -n 's/^\([a-zA-Z_0-9]*\)=.*\1/p' \
config.sh config.sh UU/oldconfig.sh
\
$sort | $uniq -u >UU/oldsyms
set X ` $cat UU/oldsyms `
shift
case $# in
0) ;;
*)
$cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
echo ": Variables propagated from previous config.sh file." >>config.sh
for sym in ` $cat UU/oldsyms `; do
echo " Propagating $hint variable ""$"$sym..."
eval 'tmp=""$"{sym}""'
echo "$tmp" | \
sed -e "s/'\"'\"'/g" -e "s/^\$sym=/'" -e "s/$/'" >>config.sh
done

```

```
;;
esac
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Oldsym.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:27 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_stddef.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
```

?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:  
?RCS: \$Log: n.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:09:19 ram  
?RCS: Baseline for dist 3.0 netwide release.

?RCS:  
?MAKE:n c: contains  
?MAKE: -pick add \$@ %<

?S:n  
?S: This variable contains the -n flag if that is what causes the echo  
?S: command to suppress newline. Otherwise it is null. Correct usage is  
?S: \$echo \$n "prompt for a question: \$c".

?S:.

?S:c  
?S: This variable contains the \c string if that is what causes the echo  
?S: command to suppress newline.

Otherwise it is null. Correct usage is

?S: \$echo \$n "prompt for a question: \$c".

?S:.

: first determine how to suppress newline on echo command

echo " "

echo "Checking echo to see how to suppress newlines..."

(echo "hi there\c" ; echo " ") >.echotmp

if \$contains c .echotmp >/dev/null 2>&1 ; then

echo "...using -n."

n='-n'

c=""

else

cat <<'EOM'

...using \c

EOM

n=""

c='\c'

fi

echo \$n "The star should be here-->\$c"

echo '\*'

rm -f .echotmp

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/n.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_statvfs d\_fstatvfs: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_statvfs:

?S: This variable conditionally defines the HAS\_STATVFS symbol, which

?S: indicates to the C program that the statvfs() routine is available.

?S:.

?S:d\_fstatvfs:

?S: This variable conditionally defines the HAS\_FSTATVFS symbol, which

?S: indicates to the C program that the fstatvfs() routine is available.

?S:.

?C:HAS\_STATVFS:

?C: This symbol, if defined, indicates that the statvfs routine is

?C: available to stat filesystems by filenames.

?C:.

?C:HAS\_FSTATVFS:

?C: This symbol, if defined, indicates that the fstatvfs routine is

?C: available to stat filesystems by file descriptors.

?C:.

?H:#\$d\_statvfs HAS\_STATVFS /\*\*/

?H:#\$d\_fstatvfs

HAS\_FSTATVFS /\*\*/

?H:.

?LINT:set d\_statvfs

?LINT:set d\_fstatvfs

: see if statvfs exists

set statvfs d\_statvfs

eval \$inlibc

: see if fstatvfs exists

set fstatvfs d\_fstatvfs

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_statvfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_finite: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_finite:  
?S: This variable conditionally defines the HAS\_FINITE symbol, which  
?S: indicates to the C program that the finite() routine is available.  
?S:.  
?C:HAS\_FINITE:  
?C: This symbol, if defined, indicates that the finite routine is  
?C: available to check whether a double is finite (non-infinity non-NaN).  
?C:.  
?H:#\$d\_finite HAS\_FINITE /\*\*/  
?H:.  
?LINT:set d\_finite  
: see if finite exists  
set finite d\_finite  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_finite.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: randbits.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 16:19:29 ram  
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:38 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit has been somewhat made obsolete with creation of the  
?X: randfunc function (which finds out how to generate random  
?X: numbers between 0 and 1.



```

?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
    variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces. Usual values are 15, 16, and 31.
?C:.
?H:#define RANDBITS $randbits /**/
?H.:
: check for size of random number generator
echo " "
case "$randbits" in
")
    echo "Checking to see how many bits your rand function produces..." >&4
    $cat >try.c <<EOCP
#$i_unistd I_UNISTD
#$i_stdlib I_STDLIB
#include <stdio.h>
#ifdef I_UNISTD
# include <unistd.h>
#endif
#ifdef I_STDLIB
# include <stdlib.h>
#endif
EOCP
$cat >>try.c <<'EOCP'
int main()
{
    register int i;
    register unsigned long tmp;
    register unsigned long max = 0L;

    for (i = 1000; i; i--) {
        tmp = (unsigned long)rand();
        if (tmp > max) max = tmp;
    }
    for (i = 0; max; i++)
        max /= 2;
    printf("%d\n",i);
}
EOCP
if $cc -o try try.c >/dev/null 2>&1 ; then

```

```

dflt=`try`
else
dflt='?'
echo
"(I can't seem to compile the test program...)"
fi
;;
*)
dflt="$randbits"
;;
esac
rp='How many bits does your rand() function produce?'
./myread
randbits="$ans"
$rm -f try.c try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/randbits.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: errnolist.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:48:01 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS: patch61: likewise for .o replaced by \$\_o

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:10:54 ram

?RCS: patch16: created

?RCS:

?MAKE:errnolist errnolist\_SH errnolist\_a errnolist\_c errnolist\_o: cat +cc \  
+ccflags +libs +d\_sysernlst\_a\_o

?MAKE: -pick add \$@ %<

?S:errnolist:

?S: This variable holds the base name of a file containing the

?S: definition of the sys\_errnolist

array, if the C library

?S: doesn't provide it already. Otherwise, its value is empty.

?S: The following lines should be included in your Makefile.SH:

```

?S:
?S: case "$serrnolist" in
?S: ") ;;
?S: *)
?S: $spitshell >>Makefile <<!GROK!THIS!
?S: $serrnolist_c: $serrnolist_SH $serrnolist_a
?S: sh ./$serrnolist_SH
?S:
?S: !GROK!THIS!
?S: ;;
?S: esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistic.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already. Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
check for sys_errnolist
@if d_sysernlist || HAS_SYS_ERRNOLIST
case "$d_sysernlist" in
"$define")
errnolist="
errnolist_SH="
errnolist_a="
errnolist_c="
errnolist_o="
;;
*)
echo " "
echo "I'll make sure your Makefile provides sys_errnolist in $serrnolist.c"
errnolist_SH=$serrnolist.SH
errnolist_a=$serrnolist$_a
errnolist_c=$serrnolist.c

```

```

    errnolist_o=$errnolist$o
;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[...]
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
    char *p0 = sys_errnolist[0];
    char *p1 = sys_errnolist[1];

    return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
    echo "It does."
    errnolist="
    errnolist_SH="
    errnolist_a="
    errnolist_c="
    errnolist_o="
else
    echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

    errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$a
    errnolist_c=$errnolist.c
    errnolist_o=$errnolist$o
fi
@end

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/errnolist.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_flock.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:  
?RCS: \$Log: d\_flock.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:05 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_flock: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_flock:  
?S: This variable conditionally defines HAS\_FLOCK if flock() is  
?S: available to do file locking.  
?S:.  
?C:HAS\_FLOCK (FLOCK):  
?C: This symbol, if defined, indicates that the flock routine is  
?C: available to do file locking.  
?C:.  
?H:#\$d\_flock HAS\_FLOCK /\*\*/  
?H:.  
?LINT:set d\_flock  
: see  
if flock exists  
set flock d\_flock  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_flock.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: charsize.U,v \$  
?RCS: Revision 3.0.1.1 1994/10/29 16:07:13 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:34 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:charsize charbits: cat rm\_try Myread Compile run  
?MAKE: -pick add \$@ %<  
?S:charsize:

?S: This variable contains the value of the CHARSIZE symbol, which  
?S: indicates to the C program how many bytes there are in a character.

?S:.

?S:charbits:

?S: This

variable contains the value of the CHARBITS symbol, which

?S: indicates to the C program how many bits there are in a character.

?S:.

?C:CHARSIZE:

?C: This symbol contains the size of a char, so that the C preprocessor

?C: can make decisions based on it.

?C:.

?C:CHARBITS:

?C: This symbol contains the size of a char, so that the C preprocessor

?C: can make decisions based on it.

?C:.

?H:#define CHARSIZE \$charsize /\*\*/

?H:#define CHARBITS \$charbits /\*\*/

?H:.

?F:!try

: length of character in bytes. Is always 1, otherwise it is not C

: This used to be a test using sizeof

charsize=1

: Check for the number of bits in a character

case "\$charbits" in

") echo "Checking how long a character is (in bits)..." >&4

\$cat >try.c <<EOCP

#include <stdio.h>

int main ()

{

int n;

unsigned char c;

for (c = 1, n = 0; c <= 1, n++);

printf ("%d\n", n);

return (0);

}

EOCP

set try

if eval \$compile\_ok; then

dflt=`\$run ./try`

else

dflt='8'

echo "(I

can't seem to compile the test program. Guessing...)"

fi

::

\*)

```

dflt="$charbits"
;;
esac
rp="What is the length of a character (in bits)?"
./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits). Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
rp='Do you really want to continue?'
dflt='n'
./myread
case "$ans" in
[yY]) echo >&4 "Okay, continuing." ;;
*) exit 1 ;;
esac
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/charsize.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

```

If you or somebody else will be maintaining \$package at your site, please fill in the correct e-mail address here so that they may be contacted if necessary. You may enter "none" for no administrator.

EOM

```
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
./myread
packadmin="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/packadmin.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_shmat.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 14:04:23 ram

?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/05/13 15:18:56 ram

?RCS: patch27: added new symbol HAS\_SHMAT\_PROTOTYPE (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:54:18 ram

?RCS: patch23: new Shmat\_t symbol to declare return type of shmat()

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:18 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_shmat shmattype

d\_shmatprototype: Inlibc cat +cc +ccflags \

rm cppstdin cppflags cppminus Findhdr Setvar contains

?MAKE: -pick add \$@ %<

?S:d\_shmat:

?S: This variable conditionally defines the HAS\_SHMAT symbol, which



?S: indicates to the C program that the shmat() routine is available.

?S:.

?S:shmattype:

?S: This symbol contains the type of pointer returned by shmat().

?S: It can be 'void \*' or 'char \*'.

?S:.

?S:d\_shmatprototype:

?S: This variable conditionally defines the HAS\_SHMAT\_PROTOTYPE

?S: symbol, which indicates that sys/shm.h has a prototype for

?S: shmat.

?S:.

?C:HAS\_SHMAT:

?C: This symbol, if defined, indicates that the shmat() routine is

?C: available to attach a shared memory segment to the process space.

?C:.

?C:Shmat\_t:

?C: This symbol holds the return type of the shmat() system call.

?C: Usually set to 'void \*' or 'char \*'.

?C:.

?C:HAS\_SHMAT\_PROTOTYPE:

?C: This symbol, if defined, indicates that the sys/shm.h includes

?C: a prototype for shmat(). Otherwise, it is up to the program

to

?C: guess one. Shmat\_t shmat\_((int, Shmat\_t, int)) is a good guess,

?C: but not always right so it should be emitted by the program only

?C: when HAS\_SHMAT\_PROTOTYPE is not defined to avoid conflicting defs.

?C:.

?H:#\$d\_shmat HAS\_SHMAT /\*\*/

?H:#define Shmat\_t \$shmattype /\*\*/

?H:#\$d\_shmatprototype HAS\_SHMAT\_PROTOTYPE /\*\*/

?H:.

?LINT:set d\_shmat d\_shmatprototype

?T:xxx

: see if shmat exists

set shmat d\_shmat

eval \$inlibc

: see what shmat returns

case "\$d\_shmat" in

"\$define")

\$cat >shmat.c <<'END'

#include <sys/shm.h>

void \*shmat();

END

if \$cc \$ccflags -c shmat.c >/dev/null 2>&1; then

shmattype='void \*'

else

shmattype='char \*'

fi

```

echo "and it returns ($shmattype)." >&4
: see if a prototype for shmat is available
xxx=`./findhdr sys/shm.h`
$ccpstdin $ccpflags $ccpminus < $xxx > shmat.c 2>/dev/null
if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
else
  val="$undef"
fi
$rm -f shmat.[co]
;;
*)
  val="$undef"
  ;;
esac
set d_shmatprototype
eval $setvar

```

Found

in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_shmat.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: charorder.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:07:08 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:33 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:chorder\_int chorder\_short chorder\_long: Myread cat Compile rm

?MAKE: -pick add \$@ %<

?S:chorder\_short (d\_cos d\_bos):

?S: Holds the value describing the byte ordering of characters in a short.

?S: On a Big-Endian machine, that

would be "c0c1".

?S:.

?S:chorder\_int (charoder):

?S: Holds the value describing the byte ordering of characters in an int.

?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".

?S:.

?S:chorder\_long (d\_col d\_bol):

?S: Holds the value describing the byte ordering of characters in a long.

?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".

?S:.

?C:CHAR\_ORDER\_SHORT:

?C: Holds the byte ordering of characters in a short. It's a string

?C: value like "c0c1" on a Big-Endian machine.

?C:.

?C:CHAR\_ORDER\_INT:

?C: Holds the byte ordering of characters in an int. It's a string

?C: value like "c0c1c2c3" on a Big-Endian machine.

?C:.

?C:CHAR\_ORDER\_LONG:

?C: Holds the byte ordering of characters in a long. It's a string

?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.

?C:.

?H:#define CHAR\_ORDER\_SHORT "\$chorder\_short" /\* byte order in a short \*/

?H:#define CHAR\_ORDER\_INT "\$chorder\_int" /\* byte order in an int \*/

?H:#define CHAR\_ORDER\_LONG "\$chorder\_long"

/\* byte order in a long \*/

?H:.

?F:!byteorder

: check for character ordering

echo " "

echo "Checking out byte order..." >&4

\$cat >byteorder.c <<'EOCP'

#include <stdio.h>

```
int main(argc, argv)
```

```
int argc;
```

```
char *argv[]; {
```

```
int i;
```

```
int max;
```

```
union {
```

```
short u_s;
```

```
int u_i;
```

```
long u_l;
```

```
char u_c[sizeof(long)];
```

```
} u;
```

```
switch (argv[1][0]) {
```

```
case 'l':
```

```
u.u_l = 0L;
```

```
/* HMS: ASSERT: sizeof(long) < 10. */
```

```
for(i = 0; i < sizeof(long); ++i) {
```

```

    u.u_l *= 0x100L;
    u.u_l += (0xc0 + i);
}
max = sizeof(long);
break;
case 's':
    u.u_s = 0;
    /* HMS: ASSERT: sizeof(short) < 10. */
    for(i = 0; i < sizeof(short); ++i) {
        u.u_s *= 0x100L;
        u.u_s += (0xc0 + i);
    }
    max = sizeof(short);
    break;
case 'i':
    u.u_i = 0;
    /* RAM: ASSERT: sizeof(int) < 10. */
    for(i = 0; i < sizeof(int); ++i) {
        u.u_l *= 0x100L;
        u.u_l += (0xc0 + i);
    }
    max = sizeof(int);
    break;
default:
    max = 0;
    break;
}
for(i = 0; i < max; i++) {
    printf("%x", u.u_c[i] & 0x00FF);
}
printf("\n");
exit(0);
}
EOCP
set
byteorder
if eval $compile_ok ; then
: null statement
@if chorder_short
    chorder_short=`./byteorder s`
@end
@if chorder_int
    chorder_int=`./byteorder i`
@end
@if chorder_long
    chorder_long=`./byteorder l`
@end
else

```

```

$cat <<EOM
(I can't seem to get my test program to work. Guessing 32 bits big-endian.)
EOM
  chorder_short="c0c1"
  chorder_int="c0c1c2c3"
  chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp="What is the order of characters in a short?"
./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp="What is the order of characters in an int?"
./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp="What is the order of characters in a long?"
./myread
chorder_long="$ans"
@end
$rm -f byteorder* core

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/charorder.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:29 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<

```

```

?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_statblks.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getsrvbyname d_getsrvbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsrvbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
?S: by their name.
?S:.
?S:d_getsrvbyport:
?S: This variable conditionally defines the HAS_GETSERVBYPOR
?S: symbol, which indicates to the C program that the
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:

```

?C: This symbol, if defined, indicates that the getservbyname()

?C: routine is available to look up services by their name.

?C:.

?C:HAS\_GETSERVBYPOR:

?C: This symbol, if defined,

indicates that the getservbyport()

?C: routine is available to look up services by their port.

?C:.

?H:#\$d\_getsbyname HAS\_GETSERVBYNAM /\*\*/

?H:#\$d\_getsbyport HAS\_GETSERVBYPOR /\*\*/

?H:.

?LINT:set d\_getsbyname d\_getsbyport

: Optional checks for getsbyname and getsbyport

@if d\_getsbyname || HAS\_GETSERVBYNAM

: see if getservbyname exists

set getservbyname d\_getsbyname

eval \$inlibc

@end

@if d\_getsbyport || HAS\_GETSERVBYPOR

: see if getservbyport exists

set getservbyport d\_getsbyport

eval \$inlibc

@end

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/d\_getsrvby.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strtoll: Inlibc d\_longlong Compile cat run

?MAKE: -pick add \$@ %<

?S:d\_strtoll:

?S: This variable conditionally defines the HAS\_STRTOULL symbol, which

?S: indicates to the C program that the strtoll() routine is available.

?S:.

?C:HAS\_STRTOULL:

?C: This symbol, if defined, indicates that the strtoll routine is

?C: available to convert strings to unsigned long longs.

?C:.

```

?H:#$d_strtoull HAS_STRTOULL /**/
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
$cat <<EOM
Checking whether your strtoull() works okay...
EOM
$cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
<stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
long long gull;
errno = 0;
gull = strtoull(s, 0, 10);
if (!(gull == eull) && (errno == een))
bad++;
}
int main() {
check(" 1", 1LL, 0);
check(" 0", 0LL, 0);
check("18446744073709551615", 18446744073709551615ULL, 0);
check("18446744073709551616", 18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
check("-1", 18446744073709551615ULL, 0);
check("-18446744073709551614", 2LL, 0);
check("-18446744073709551615", 1LL, 0);
check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
if (!bad)
printf("ok\n");
}
EOCP
set try
if eval $compile; then
case "$run ./try`" in
ok) echo "Your strtoull() seems to be working okay."

```



```

;;
*) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
    d_strtoull="$undef"
    ;;
esac
else
echo "(I can't seem to compile the test program--assuming it doesn't)"
d_strtoull="$undef"
fi
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strtoull.U

```

No license file was found, but licenses were detected in source scan.

```

;#####

```

```

;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

```

```

/*
* MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

```

```

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

```

```

*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.

```

```

*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7 2004/08/22 08:28:58 ram
* patch71: random cleanup

```

```

*
* Revision 3.0.1.6 1997/02/28 14:56:01 ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies

```

```

computation

```

```

*
* Revision 3.0.1.5 1995/09/25 09:07:19 ram
* patch59: smarter sed command to strip /usr/include dependencies

```

```

*
* Revision 3.0.1.4 1995/07/25 13:33:59 ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
*
* Revision 3.0.1.3 1995/03/21 08:35:28 ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2 1995/01/11 14:49:55 ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1 1994/10/29 15:46:30 ram
* patch36: added RemoteDependency rule
*
* Revision 3.0 1993/08/18 12:04:14 ram
* Baseline for dist 3.0 netwide release.
*
*/

```

```

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

```

```

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
* when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/

```

```

#define AddedByConfigure(files) @!\
local_clobber:: @@\
$(RM) files

```

```

/*
* AddSuffix:
* Adds a suffix to the .SUFFIXES: list.
*/

```

```

#define AddSuffix(ext) @!\
|suffix ext

```

```

/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/

```

```

#define AllTarget(depends) @!\
all:: depends @!\

```

```

    @!\
local_realclean::  @@\
$(RM) depends

/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space). There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
$(RM) program @@\
if test -f program^^^$_EXE); then \ @@\
$(MV) program^^^$_EXE program^^~^^^$_EXE); fi

/*
* NormalProgramTarget:
* Generate rules to compile and link the
  indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule() @!\
AllTarget(program) @!\
    @!\
program: objects  @@\
RemoveTargetProgram($@) @@\
$(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\

/*
* SingleProgramTarget:
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs) \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file. It should only be used in Jmakefiles that
* describe a single program.
*/

```

```

#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)

/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
* $(SRCS), installing the program and its man page, and
* generating dependencies. It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
NormalObjectRule() @!\
AllTarget(program) @!\
    @!\
program: $(OBJS) @@\
RemoveTargetProgram($@) @@\
$(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
    @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget() @!\
LintTarget()

/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
* $(OBJS1) and $(SRCS1), installing the program and its man page,
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3). It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule() @!\
AllTarget(program) @!\
    @!\
program:
$(OBJS1) @@\
RemoveTargetProgram($@) @@\
$(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
    @!\

```

```
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
    @!\
DependTarget()    @!\
LintTarget()
```

```
/*
```

```
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJ2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
```

```
*/
```

```
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJ2) @!\
++SOURCES $(SRCS2) @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
    @!\
program: $(OBJ2)    @@\
RemoveTargetProgram($@)    @@\
$(CC) -o $@ $(OBJ2) $(JLDFLAGS) $(LIBS) @!\
    @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))
```

```
/*
```

```
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
program specified by
* $(OBJ3) and $(SRCS3) and installing the program and man page. It
* should be used to build the third program in Jmakefiles describing
* more than one program.
```

```
*/
```

```
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJ3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
    @!\
program: $(OBJ3)    @@\
RemoveTargetProgram($@)    @@\
$(CC) -o $@ $(OBJ3) $(JLDFLAGS) $(LIBS) @!\
    @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))
```

```

/*
* ComplexShellManualTarget:
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_ @!\
|rule:.SH.$manext: @!\
|rule: /bin/sh $< @!\
|rule: @!\
-once @!\
AddSuffix(.SH) @!\
AddSuffix($manext) @!\
AllTarget(manpages) @!\
    @!\
local_install.man:: @@\
    _MakeInstallDirIgnore($(MANSRC)) \    @@\
for
file in manpages; do \    @@\
    (set -x; $(INSTALL) -c -m 444 $$file \    @@\
    $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \    @@\
done @!\
    @!\
local_deinstall.man:: @@\
    @case '${MFLAGS}' in *[i]*) set +e;; esac; \    @@\
for file in manpages; do \    @@\
    (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \    @@\
done

/*
* Initialize:
* Puts the line symbol = value in the initialization section of
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value

/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a @@\

```

```

_MakeInstallDirIgnore(dest) \ @@\
$(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^dest @@\
$(RANLIB) dest/lib^^libname.a @@\
chmod 444 dest/lib^^libname.a @!\
    @!\
local_deinstall::  @@\
$(RM) $(INSTALL_PREFIX)^^dest/lib^^libname.a

/*
* InstallSharedLibrary:
* Generate rules to install
the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev @@\
_MakeInstallDirIgnore(dest) \ @@\
$(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^dest @!\
    @!\
local_deinstall::  @@\
$(RM) $(INSTALL_PREFIX)^^dest/lib^^libname.so.rev

/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev @@\
_MakeInstallDirIgnore(dest) \ @@\
$(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^dest @!\
    @!\
local_deinstall::  @@\
$(RM) $(INSTALL_PREFIX)^^dest/lib^^libname.sa.rev

/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
$(RM) lib^^alias.a @@\
-(cd dest; $(LN) lib^^libname.a lib^^alias.a)
@!\
    @!\
local_deinstall::  @@\

```

```
$(RM) dest/lib^^alias.a
```

```
/*
```

```
* InstallLintLibrary:
```

```
* Generate rules to install the indicated lint library.
```

```
*/
```

```
#define InstallLintLibrary(libname,dest) @!\
```

```
install.ln:: llib-I^^libname.ln @@\
```

```
_MakeInstallDirIgnore(dest) \ @@\
```

```
$(INSTALL) -c -m 444 llib-I^^libname.ln $(INSTALL_PREFIX)^^dest @!\
```

```
@!\
```

```
deinstall.ln:: @@\
```

```
$(RM) $(INSTALL_PREFIX)^^dest/llib-I^^libname.ln
```

```
/*
```

```
* InstallManPageLong:
```

```
* Generate rules to install the indicated manual page, giving it an  
* alternate name. This is used for installing man pages whose base  
* name without the .man suffix would normally be longer than 8  
* characters (the limit for using source code control systems on  
* files systems with short file names).
```

```
*/
```

```
#define InstallManPageLong(file,destdir,dest) @!\
```

```
local_install.man:: file.man @@\
```

```
_MakeInstallDirIgnore(destdir) \ @@\
```

```
$(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^destdir/dest.$(L) @!\
```

```
@!\
```

```
local_deinstall.man:: @@\
```

```
$(RM)
```

```
$(INSTALL_PREFIX)^^destdir/dest.$(L) @!\
```

```
/*
```

```
* InstallManPage:
```

```
* Generate rules to install the indicated manual page.
```

```
*/
```

```
#define InstallManPage(file,dest) @!\
```

```
InstallManPageLong(file,dest,file)
```

```
/*
```

```
* InstallNonExec:
```

```
* Generate rules to install a data file using any special  
* install flags.
```

```
*/
```

```
#define InstallNonExec(file,dest) @!\
```



```

local_install:: file  @@\
  _MakeInstallDirIgnore(dest) \ @@\
  $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
  @!\
local_deinstall::  @@\
  $(RM) $(INSTALL_PREFIX)^^^dest/file

/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program  @@\
  _MakeInstallDirIgnore(dest) \ @@\
  $(INSTALL) -c -s -m 555 flags program^^^$_EXE $(INSTALL_PREFIX)^^^dest @!\
  @!\
local_deinstall::  @@\
  $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$_EXE

/*
* InstallProgramNoStripWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program  @@\
  _MakeInstallDirIgnore(dest) \ @@\
  $(INSTALL) -c -m 555 flags program^^^$_EXE $(INSTALL_PREFIX)^^^dest @!\
  @!\
local_deinstall::  @@\
  $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$_EXE

/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)

/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special

```

```

* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
InstallProgramNoStripWithFlags(program,dest,^^)

/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
* flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script  @@\
  _MakeInstallDirIgnore(dest) \ @@\
  $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
  @!\
local_deinstall::  @@\
  $(RM) $(INSTALL_PREFIX)^^^dest/script

/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)

/*
* InstallScripts:
* Generate rules to install all the scripts listed in the generated
* $(SCRIPTS) and $(LSCRIPTS) macros.
*/
#define InstallScripts() @!\
|once _InstallScripts_ @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)  @@\
  _MakeInstallDirIgnore($(SCRIPTDIR)) \ @@\
  for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
done  @!\
  @!\
local_deinstall::  @@\
  @for file in $(SCRIPTS)

```

```

$(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
done  @!\
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip  @!\
local_install.man::  @@\
  _MakeInstallDirIgnore($(MANSRC)) \ @@\
  for file in $(SCRIPTS); do \  @@\
  if test -f $$file.man; then \  @@\
    (set -x; \  @@\
      $(INSTALL) -c -m 444 $$file.man \ @@\
      $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \  @@\
done  @!\
  @!\
local_deinstall.man::  @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  for file in $(SCRIPTS); do \  @@\
    (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
  done  @!\
  @!\
-skip  @!\
-once

/*
* LinkFileList:
* Link a list of list of files from one place to another
*/
#define LinkFileList(step,list,dir,sub) @!\
step:: list  @@\
  @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done

/*
* InstallMultipleDestFlags:

```

```

* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
step:: list    @@\
  _MakeInstallDirIgnore(dest) \ @@\
  for i in list; do \    @@\
    (set -x; $(INSTALL) -c flags \ @@\
     $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\    @@\
  done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
#define DeinstallMultipleDest(step,list,dest) @!\
step::    @@\
  @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  for i in list; do \    @@\
    (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \    @@\
  done

/*
* InstallMultiple:
* Generate rules to install multiple
  files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)

/*
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)

/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages

```

```

* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall.man,list,dest)

/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
    @!\
depend:: TOPDIR/mkdep    @!\
    @!\
TOPDIR/mkdep:    @!\
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1

/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget() @!\
+USRINC = $usrinc @!\
|once _DependTarget_ @!\
DependDependency() @!\
    @!\
depend::    @@\
    $(SED) /^# DO NOT DELETE/q' Makefile && \ @@\
    $(MKDEP) $(SOURCES) | \ @@\
    $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
    -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
    -e 'x; s/\$\$/; s/\n//g; s/ ^ * / /g; s/ :/;/ -e '/: *$/d' \ @@\
) > Makefile.new    @@\
cp Makefile Makefile.bak    @@\
cp Makefile.new Makefile    @@\
$(RM) Makefile.new    @!\
    @!\
-once

/*
* CleanTarget:
* Generate rules to remove any garbage files.
*/

```

```

#define CleanTarget() @!\
?SUBDIRS:clean:
  sub_clean local_clean @!\
%SUBDIRS:clean: local_clean @!\
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean @!\
?SUBDIRS:clobber: sub_clobber local_clobber @!\
%SUBDIRS:clobber: local_clobber @!\
  @!\
local_clean:: @@\
if test -f core; then $(RM) core; fi @@\
$(RM) *~*.o @!\
  @!\
local_realclean:: local_clean @!\
?TOP: $(RM) -r UU @!\
  @!\
local_clobber:: local_realclean @!\
%TOP: $(RM) Makefile config.sh @!\
?TOP: $(RM) config.sh config.h @!\
?TOP: $(RM) -r .config @!\
?TOP: $(RM) Makefile @!\

/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget() @!\
?SUBDIRS:install:: local_install sub_install @!\
%SUBDIRS:install:: local_install @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man @!\
%SUBDIRS:install.man:: maybe_install.man @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall @!\
%SUBDIRS:deinstall::
  local_deinstall @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
%SUBDIRS:deinstall.man:: maybe_deinstall.man @!\
  @!\
?MANSRC:install.man-yes: local_install.man @!\
install.man-no: @!\
?MANSRC:deinstall.man-yes: local_deinstall.man @!\
deinstall.man-no: @!\

/*
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/

```

```

#define TagsTarget()  @!\
tags::  @@\
$(CTAGS) -w *. [ch]  @@\
$(CTAGS) -xw *. [ch] > tags  @!\
    @!\
local_clobber::  @@\
$(RM) tags

/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags. This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
Jmakefile  @@\
-@if test -f $(TOP)/.package; then \ @@\
if test -f Makefile.SH; then \ @@\
    echo "$(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
    $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
fi; \  @@\
echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
$(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
else touch $@; fi

/*
* BuildMakefile:
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
Makefile: Makefile.SH  @@\
/bin/sh Makefile.SH

/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget() @!\
BuildMakefileSH(^^)  @!\
BuildMakefile()

```

```

/*
* NormalObjectRule:
* Generate make rule to build usual object files.
*/
#define NormalObjectRule() @!\
|once _ObjectRule_ @!\
|rule:.c.o: @!\
|rule: $(CC) -c $(JCFLAGS) $< @!\
|rule: @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
"normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_ @!\
|rule:.c.o: @!\
|rule: $(RM) $@ @!\
|rule: $(CC) -c $(JCFLAGS) $< @!\
|rule: @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all:: @@\
    @if [ ! -d profiled ]; then mkdir profiled; fi @!\
    @!\
|rule:.c.o: @!\
|rule: $(RM) $@ profiled/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o @!\
|rule: $(CC) -c $(JCFLAGS) $*.c @!\
|rule: @!\
local_clean:: @@\
    -@if [ -d profiled ]; then echo " $(RM) profiled/*.*"; \ @!\
    $(RM) profiled/*.*; fi

/*
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.

```



```

*/
#define DebuggedLibraryObjectRule() @!\
all:: @!\
@if [ ! -d debugger ]; then mkdir debugger; fi @!\
    @!\
|rule:.c.o: @!\
|rule: $(RM) $@
debugger/$@ @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o @!\
|rule: $(CC) -c $(JCFLAGS) $*.c @!\
|rule: @!\
local_clean:: @!\
-@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @!\
$(RM) debugger/?*.o; fi

```

```

/*
* DebuggedAndProfiledLibraryObjectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/

```

```

#define DebuggedAndProfiledLibraryObjectRule() @!\
all:: @!\
@if [ ! -d profiled ]; then mkdir profiled; fi @!\
@if [ ! -d debugger ]; then mkdir debugger; fi @!\
    @!\
|rule:.c.o: @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o @!\
|rule: $(CC) -c $(JCFLAGS) $*.c @!\
|rule: @!\
local_clean:: @!\
-@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @!\
$(RM) profiled/?*.o; fi @!\
-@if [ -d debugger ];
then echo " $(RM) debugger/?*.o"; \ @!\
$(RM) debugger/?*.o; fi

```

```

/*
* SharedLibraryObjectRule:
* Generate make rules to build shared and "normal" object files.
*/

```

```

#define SharedLibraryObjectRule() @!\

```

```

all::    @@\
@if [ ! -d shared ]; then mkdir shared; fi @!\
    @!\
|rule:.c.o:    @!\
|rule: $(RM) $@ shared/$@ @!\
|rule: $(CC) -pic -c $(SHARED_CODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:    @!\
local_clean::    @@\
-@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \ @@\
$(RM) shared/?*.o; fi

```

```

/*
* SharedAndDebuggedLibraryObjectRule:
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/

```

```

#define SharedAndDebuggedLibraryObjectRule() @!\
all::    @@\
@if [ ! -d shared ]; then mkdir shared; fi @@\
@if [ ! -d debugger ]; then mkdir debugger; fi @!\
    @!\
|rule:.c.o:    @!\
|rule: $(RM) $@ shared/$@ debugger/$@ @!\
|rule:
$(CC) -pic -c $(SHARED_CODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:    @!\
local_clean::    @@\
-@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \ @@\
$(RM) shared/?*.o; fi @@\
-@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
$(RM) debugger/?*.o; fi

```

```

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/

```

```

#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::    @@\
@if [ ! -d shared ]; then mkdir shared; fi @@\
@if [ ! -d debugger ]; then mkdir debugger; fi @!\
    @!\

```

```

objs: depends    @@\
$(RM) $@ shared/$@  @@\
$(CC) -pic -c $(SHARED_CODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
$(MV) $*.o shared/$*.o  @@\
$(CC)
-g -c $(SHLIBDEF) $(JCFLAGS) options $*.c  @@\
$(MV) $*.o debugger/$*.o  @@\
$(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options) @!\
all::    @@\
@if [ ! -d shared ]; then mkdir shared; fi @!\
    @!\
objs: depends    @@\
$(RM) $@ shared/$@  @@\
$(CC) -pic -c $(SHARED_CODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
$(MV) $*.o shared/$*.o  @@\
$(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options) @!\
objs: depends    @@\
$(RM) $@    @@\
$(CC) -c $(JCFLAGS) options $*.c

/*
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options) @!\
all::    @@\
@if
[ ! -d profiled ]; then mkdir profiled; fi @!\
    @!\
objs: depends    @@\
$(RM) $@ profiled/$@  @@\
$(CC) -pg -c $(JCFLAGS) options $*.c @@\

```

```

$(MV) $*.o profiled/$*.o @@\
$(CC) -c $(JCFLAGS) options $*.c

/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::    @@\
    @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends    @@\
$(RM) $@ debugger/$@    @@\
$(CC) -g -c $(JCFLAGS) options $*.c @@\
$(MV) $*.o debugger/$*.o    @@\
$(CC) -c $(JCFLAGS) options $*.c

/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::    @@\
    @if [ ! -d profiled ]; then mkdir profiled; fi @@\
    @if [ ! -d
debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends    @@\
$(RM) $@ profiled/$@ debugger/$@    @@\
$(CC) -pg -c $(JCFLAGS) options $*.c @@\
$(MV) $*.o profiled/$*.o    @@\
$(CC) -g -c $(JCFLAGS) options $*.c @@\
$(MV) $*.o debugger/$*.o    @@\
$(CC) -c $(JCFLAGS) options $*.c

/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\

```

```

++SOURCES srclist @!\
NormalLibraryObjectRule() @!\
AllTarget(lib^^libname.a) @!\
    @!\
lib^^libname.a: objlist @@\
$(RM) $@ @@\
$(AR) $@ objlist @@\
$(RANLIB) $@

/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define
NormalSharedLibraryTarget(libname,rev,so) @!\
AllTarget(lib^^libname.so.rev) @!\
    @!\
lib^^libname.so.rev: so @@\
$(RM) $@~ @@\
(cd shared; $(LD) -o ../$@~ -assert pure-text so) @@\
$(RM) $@ @@\
$(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
AllTarget(lib^^libname.sa.rev) @!\
    @!\
lib^^libname.sa.rev: salist @@\
$(RM) $@ @@\
$(AR) $@ salist @@\
$(RANLIB) $@

/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps. This is used to
* create libraries with large numbers of files.
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\

```

```

++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule() @!\
AllTarget(lib^^libname.a) @!\
    @!\
lib^^libname.a:
objlist1 objlist2 @@\
$(RM) $@    @@\
$(AR) $@ objlist1    @@\
$(AR) $@ objlist2    @@\
$(RANLIB) $@

/*
* ProfiledLibraryTarget:
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a) @!\
    @!\
lib^^libname^^_p.a: objlist    @@\
$(RM) $@    @@\
cd profiled; $(AR) ../$@ objlist @@\
$(RANLIB) $@

/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a) @!\
    @!\
lib^^libname^^_d.a: objlist    @@\
$(RM) $@    @@\
cd debugger; $(AR) ../$@ objlist @@\
$(RANLIB) $@

/*
* AliasedLibraryTarget:
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\

```

```
AllTarget(lib^^alias.a) @!\
    @!\
lib^^alias.a:
lib^^libname.a @@\
$(RM) $@  @@\
$(LN) lib^^libname.a $@
```

```
/*
```

```
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
```

```
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o) @!\
    @!\
objname.o: objlist  @@\
$(RM) $@  @@\
$(LD) $(JLDFLAGS) -r objlist -o $@ libs
```

```
/*
```

```
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
```

```
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c  @!\
AllTarget(file^^.o) @!\
NormalObjectRule()
```

```
/*
```

```
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
```

```
#define NormalRelocatableTarget(objname,objlist) @!\
AllTarget(objname.o) @!\
    @!\
objname.o: objlist  @@\
$(RM) $@  @@\
$(LD) $(JLDFLAGS) -r objlist -o $@
```

```
/*
```

```
* ProfiledRelocatableTarget:
* Generate rules to produce a profiled relocatable object file
* instead
```

```

of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o) @!\
    @!\
objname^^_p.o: objlist  @@\
$(RM) $@  @@\
$(LD) -X -r objlist -o $@

/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_d.o) @!\
    @!\
objname^^_d.o: objlist  @@\
$(RM) $@  @@\
$(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library. Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
    @!\
llib-l^^libname.ln: srclist  @@\
$(RM) $@  @@\
$(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist

/*
* NormalLintTarget:
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:  @@\
$(LINT) $(LINTFLAGS) srclist
$(LINTLIBS)

/*
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)

```



```

*/
#define LintTarget() @!\
|once _LintTarget_ @!\
NormalLintTarget($(SOURCES)) @!\
-once

/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir) @!\
src: dir/src @@\
$(RM) $@ @@\
$(LN) $? $@ @!\

/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step:: dir srclist @@\
@-(list=`echo srclist | sed -e 's/[^ ]*///g^'; \ @@\
set -x; cd dir; $(RM) $$list) @@\
@for i in srclist; do \ @@\
(set -x; cd dir; $(LN) ../$$i) || exit 1; \ @@\
done @@\
@!\
MakeDirectories(dir,dir) @!\
@!\
local_realclean:: @@\
@-(if [ -d dir ]; then \ @@\
list=`echo srclist | sed -e 's/[^ ]*///g^'; \ @@\
set -x; cd dir; $(RM) $$list; fi)

/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs: @@\
@case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
for i in dirs ;\ @@\
do \ @@\

```

```
(cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \ @@\  
$(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\  
done
```

```
/*
```

```
* NamedTargetSubdirsRule:
```

```
* Recursively make a series of steps in the specified directories.
```

```
*/
```

```
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
```

```
name::      @@\  
@case '{MFLAGS}' in *[ik]*) set +e;; esac; \ @@\  
for i in dirs ;\   @@\  
do \   @@\  
(cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\  
$(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\  
done
```

```
/*
```

```
* NamedTargetSubdirs:
```

```
* Recursively make a series of steps.
```

```
*/
```

```
#define NamedTargetSubdirs(name,verb,flags) @!\
```

```
name::      @@\  
@$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags
```

```
/*
```

```
* NamedSubTargetSubdirs:
```

```
* Recursively make a series of steps,
```

```
like NamedTargetSubdirs.
```

```
* However, the supplied "name" has "sub_" prefixed to it.
```

```
*/
```

```
#define NamedSubTargetSubdirs(name,verb,flags) @!\
```

```
sub_^^name::      @@\  
@$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags
```

```
/*
```

```
* NamedDepthTargetSubdirs:
```

```
* Recursively make a series of steps. We first enter the
```

```
* subdirectories, then perform the local entries.
```

```
* The supplied "name" has "sub_" prefixed to it.
```

```
*/
```

```
#define NamedDepthTargetSubdirs(name,verb,flags) @!\
```

```
sub_^^name::      @@\  
@$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\  
@echo "Back to $(CURRENT) for "name^^...
```

```

/*
* MakeSubdirs:
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)

/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)

/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))

/*
* InstallSubdirs:
* Generate rules to recursively install and deinstall programs and
* files.
*/
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)

/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)

```

```

/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)

/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)

/*
* TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
NamedTargetSubdirsRule(dirs,target,"Linting",^^)

/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)

/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/

```

```

#define LintSubdirs() \
LintDirs($(SUBDIRS))

/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
@case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
for dir in dirs;
do \    @@\
(set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
exit 1; \ @@\
done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
@case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
for dir in dirs; do \    @@\
_MakeInstallDir($$dir) \    @@\
done

/*
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
#define _MakeInstallDir(dir) \
(set -x; test -d $(INSTALL_PREFIX)^dir || \ @@\
$(INSTALLDIR) $(INSTALL_PREFIX)^dir);

/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
@case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
_MakeInstallDir(dir)

/*
* _RmInstallDirs:

```

```

* Removes a set of intall directories.
* There should be no '@!'
  at the end of the '#define' line, because this
* macro is used *inside* building rules.
*/
#define _RmInstallDirs(dirs) \
  @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  for dir in dirs; do \    @@\
    (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
  done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs) @!\
step::    @@\
  MakeDirs(dirs)

/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::  @@\
  _MakeInstallDirs(dirs) @!\
    @!\
local_deinstall:: @@\
  _RmInstallDirs(dirs)

/*
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)

/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.

```

```

*/
#define MakeMakeSubdirs(target) @!\
target::    @@\
    @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
    for i in $(SUBDIRS);\    @@\
    do \    @@\
    echo "Making "target" in $(DIR)$Si..."; \ @@\
    (cd $Si || exit 1; \    @@\
    if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
    $(MAKE) $(MFLAGS) target) || exit 1;\    @@\
    done

/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH() @!\
Makefiles.SH:: Makefile.SH    @@\
    @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
    for i in $(SUBDIRS);\    @@\
    do \    @@\
    case "$(DIR)$Si/" in \    @@\
    ^^*^^/^^*^^/^^*^^/^^*^^) newtop=../../...;;
    \ @@\
    ^^*^^/^^*^^/^^*^^) newtop=../../...;; \    @@\
    ^^*^^/^^*^^) newtop=../...;; \    @@\
    *^^) newtop=...;; \    @@\
    esac; \    @@\
    case "$(TOP)" in \    @@\
    /^^*) newtop="$(TOP)" ;; \    @@\
    esac; \    @@\
    echo "Making Makefiles.SH in $(DIR)$Si..."; \ @@\
    (cd $Si || exit 1; \    @@\
    if test -f Jmakefile; then \    @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \    @@\
    Makefile TOP=$$newtop CURRENT=$(DIR)$Si && \    @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \    @@\
    fi; \    @@\
    ) || exit 1; \    @@\
    done

/*
* MakefileSubdirs:

```

```

* Generate rules to create Makefiles.
*/
#define MakefileSubdirs() @!\
MakeMakeSubdirs(Makefiles) @!\
MakeMakefilesSH()

/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst:: src deplist  @@\
$(RM) $@  @@\
$(CPP) defs <src | \  @@\
sed -e '/^# *[0-9][0-9]* *.*$$/d' >$@  @@\
chmod a+x $@

/*
* MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)

/*
* ShellScriptTargetExt:
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext) @!\
InstallScripts()  @!\
InstallManScripts()

/*
* ShellScriptTarget:
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.

```



```

*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)

/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
* something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts) @!\
    @!\
|expand s!scripts! @!\
!s: !s^^ext @@\
/bin/sh !s^^ext @!\
    @!\
-expand

/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)

/*
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname) @!\
    @!\
scriptname: basename^^.SH @@\
/bin/sh basename^^.SH @!\
    @!\
InstallScripts() @!\
?NOMAN:|skip @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip

```

```

/*
 * ForceTarget:
 * The force target will force reconstruction of all the other
 * targets which include .FORCE in their own dependencies.
 */
#define ForceTarget() @!\
|once _force_ @!\
.FORCE: @!\
    @!\
-once

/*
 * RemoteTargetDependency:
 * A local target may rely on a remote dependency (e.g. a library)
 * made in a separate directory. This rule explicits the dependency
 * and forces a make of that dependency in the remote directory.
 */
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\

/*
 * RemoteDependency:
 * Specify rules for making a remote dependency.
 */
#define RemoteDependency(directory,dependency) @!\
ForceTarget() @!\
|once =directory/^^^dependency= @!\
directory/^^^dependency: .FORCE @@\
    @echo "Checking "^^^dependency" in "^^^directory"..." @@\
    cd ^^^directory; $(MAKE) ^^^dependency @@\
    @echo "Continuing in $(CURRENT)..." @!\
    @!\
-once

/*
 * SetSubdirs:
 * Actually forces the definition of SUBDIRS, and lets the user
 * specify what the sub-directories are. This will be added to the
 * customization part.
 */
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs

```

```
/*
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN
```

```
/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand
```

```
/*
* Lex and yacc stuff.
*/
```

```
/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
*/
#define YaccRule() @!\
AddSuffix(.y) @!\
|once _YaccRule_ @!\
|rule:.y.c: @!\
|rule: $(YACC) $(JYFLAGS)
$< @!\
|rule: $(MV) y.tab.c $@ @!\
|rule: @!\
-once
```

```
/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
```

```

*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
++OBJECTS base.o @!\
YaccRule() @!\
program: base.c @!\
    @!\
local_realclean:: @@\
$(RM) base.c @!\

/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
    @!\
program: base.c @!\
    @!\
base.c: base.y    @@\
$(YACC) $(JYFLAGS) base.y @@\
$(SED) -e 's/yy\(.)/prefix\1/g' < y.tab.c > base.c @@\
$(SED) -e 's/yy\(.)/prefix\1/g' < y.tab.h > base.h @@\
$(RM) y.tab.c y.tab.h @!\
    @!\
local_realclean:: @@\
$(RM) base.c @!\

/*
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
base.h: base.c @@\
@if test -f y.tab.h; then \ @@\
    echo " $(MV) y.tab.h $@"; \ @@\

```

```

$(MV) y.tab.h $@; \ @@\
fi    @!\
    @!\
local_realclean::  @@\
$(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
* be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
@if test -f y.tab.h; then \ @@\
echo "$(SED) -e 's/yy\(.)/prefix\1/g' < y.tab.h > base.h"; \ @@\
$(SED) -e 's/yy\(.)/prefix\1/g' < y.tab.h > base.h; \ @@\
echo "$(RM) y.tab.h"; \ @@\
$(RM) y.tab.h; \ @@\
elif test -f base.h; then \ @@\
echo "$(CP) base.h base.ht"; \ @@\
$(CP) base.h base.ht; \ @@\
echo "$(SED) -e 's/yy\(.)/prefix\1/g' < base.ht > base.h"; \ @@\
$(SED) -e 's/yy\(.)/prefix\1/g' < base.ht > base.h; \ @@\
echo "$(RM) base.ht"; \ @@\
$(RM) base.ht; \ @@\
fi    @!\
    @!\
local_realclean::  @@\
$(RM) base.h

/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
* as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)

```

```

/*
* IdentifiedYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to replace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)

```

```

/*
* SimpleLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_ @!\
|rule:.l.c: @!\
|rule: $(LEX) $(JLFLAGS) $< @!\
|rule: $(MV) lex.yy.c $@ @!\
|rule: @!\
-once @!\
AddSuffix(.l) @!\
program:
base.c @!\
    @!\
local_realclean:: @@\
$(RM) base.c @!\

```

```

/*
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
program: base.c @!\
    @!\
base.c: base.l @@\

```

```
$(LEX) $(JLFLAGS) base.l @@\  
$(SED) -e 's/yy\(.\/)/prefix\1/g' < lex.yy.c > base.c @@\  
$(RM) lex.yy.c @!\  
@!\  
local_realclean:: @@\  
$(RM) base.c @!\
```

```
/*  
* NormalLexDependTarget:  
* Declare that program will need an include file produced by  
* the output of lex on base.l, which typically produces a file  
* named lex.yy.c which will be renamed as base.c. Besides, the  
* lexical analyzer needs the file parser.h produced by running  
* parser.y through yacc and renaming y.tab.h as parser.h.  
*/
```

```
#define NormalLexDependTarget(program,base,parser)  
@!\  
base.o: parser.h @!\  
@!\  
SimpleLexTarget(program,base)
```

```
/*  
* IdentifiedLexDependTarget:  
* Declare that program will need an include file produced by  
* the output of lex on base.l, which typically produces a file  
* named lex.yy.c which will be renamed as base.c. Besides, the  
* lexical analyzer needs the file parser.h produced by running  
* parser.y through yacc and renaming y.tab.h as parser.h.  
* The lexical analyzer is identified with the supplied prefix,  
* which replaces the regular 'yy' prefix in the symbol names.  
*/
```

```
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\  
base.o: parser.h @!\  
@!\  
IdentifiedLexTarget(program,base,prefix)
```

```
/*  
* NormalParserTarget:  
* Specify that program is using the lex/yacc combination to  
* produce a parser. The lexic and parser parameters are the  
* base name of the .l and .y file, respectively.  
*/  
#define NormalParserTarget(program,lexic,parser) @!\  
NormalLexDependTarget(program,lexic,parser)
```

```
@!\nNormalYaccTarget(program,parser)
```

```
/*\n * IdentifiedParserTarget:\n * Specify that program is using the lex/yacc combination to\n * produce a parser. The lexic and parser parameters are the\n * base name of the .l and .y file, respectively. The parser\n * produced is identified via its prefix, which replaces all\n * the normally supplied 'yy' prefix, hence making it possible\n * to have multiple parsers in a single executable.\n */\n#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\nIdentifiedLexDependTarget(program,lexic,parser,prefix) @!\nIdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/files/Jmake.rules
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$\n?RCS:\n?RCS: Copyright (c) 2000 Jarkko Hietaniemi\n?RCS:\n?RCS: You may distribute under the terms of either the GNU General Public\n?RCS: License or the Artistic License, as specified in the README file.\n?RCS:\n?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar\n?MAKE: -pick add $@ %<\n?S:d_isnan:\n?S: This variable conditionally defines the HAS_ISNAN symbol, which\n?S: indicates to the C program that the isnan() routine is available.\n?S:.\n?C:HAS_ISNAN:\n?C: This symbol, if defined, indicates that the isnan routine is\n?C: available to check whether a double is a NaN.\n?C:.\n?H:#$d_isnan HAS_ISNAN /**/\n?H:.\n?LINT:set d_isnan\n: check for isnan\necho "Checking to see if you have isnan..." >&4\n$cat >try.c <<EOCP\n#include <math.h>\nint main() { return isnan(0.0); }\nEOCP
```



```
set try
if eval $compile; then
  val="$define"
  echo "You have isnan."
else
  val="$undef"
  echo "You do not have isnan."
fi
$rm_try
set d_isnan
eval $setvar
```

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_isnan.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: Original Author: Tye McQueen <tye@metronet.com>

?RCS:

?RCS: \$Log: d\_stdstdio.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:46:32 ram

?RCS: patch61: merged with perl5's unit

?RCS:

?RCS: Revision 3.0.1.2 1995/07/25 14:06:54 ram

?RCS: patch56: typo fix on ?C: line for FILE\_bufsiz

?RCS: patch56: fixed unbalanced parenthesis (ADO)

?RCS: patch56: check whether FILE\_cnt and FILE\_ptr can be assigned to (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1995/05/12 12:12:11 ram

?RCS:

patch54: complete rewrite by Tye McQueen to fit modern systems

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:31 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_stdstdio d\_stdibase stdio\_ptr stdio\_cnt \

d\_stdio\_ptr\_lval\_sets\_cnt d\_stdio\_ptr\_lval\_nochange\_cnt stdio\_base \

stdio\_bufsiz d\_stdio\_cnt\_lval d\_stdio\_ptr\_lval stdio\_filbuf: cat \  
Compile contains rm\_try d\_gnulibc gnulibc\_version i\_stdlib \  
Setvar Findhdr Oldconfig run to  
?MAKE: -pick weed \$@ %<  
?S:d\_stdstdio:  
?S: This variable conditionally defines USE\_STDIO\_PTR if this system  
?S: has a FILE structure declaring usable \_ptr and \_cnt fields (or  
?S: equivalent) in stdio.h.  
?S:.  
?S:stdio\_ptr:  
?S: This variable defines how, given a FILE pointer, fp, to access the  
?S: \_ptr field (or equivalent) of stdio.h's FILE structure. This will  
?S: be used to define the macro FILE\_ptr(fp).  
?S:.  
?S:d\_stdio\_ptr\_lval:  
?S: This variable conditionally defines STDIO\_PTR\_LVALUE if the  
?S: FILE\_ptr macro can be used as an lvalue.  
?S:.  
?S:stdio\_cnt:  
?S: This  
variable defines how, given a FILE pointer, fp, to access the  
?S: \_cnt field (or equivalent) of stdio.h's FILE structure. This will  
?S: be used to define the macro FILE\_cnt(fp).  
?S:.  
?S:d\_stdio\_cnt\_lval:  
?S: This variable conditionally defines STDIO\_CNT\_LVALUE if the  
?S: FILE\_cnt macro can be used as an lvalue.  
?S:.  
?S:d\_stdio\_ptr\_lval\_sets\_cnt:  
?S: This symbol is defined if using the FILE\_ptr macro as an lvalue  
?S: to increase the pointer by n has the side effect of decreasing the  
?S: value of File\_cnt(fp) by n.  
?S:.  
?S:d\_stdio\_ptr\_lval\_nochange\_cnt:  
?S: This symbol is defined if using the FILE\_ptr macro as an lvalue  
?S: to increase the pointer by n leaves File\_cnt(fp) unchanged.  
?S:.  
?S:stdio\_filbuf:  
?S: This variable defines how, given a FILE pointer, fp, to tell  
?S: stdio to refill its internal buffers (?). This will  
?S: be used to define the macro FILE\_filbuf(fp).  
?S:.  
?S:d\_stdibase:  
?S: This variable conditionally defines USE\_STDIO\_BASE if this system  
?S: has  
a FILE structure declaring a usable \_base field (or equivalent)  
?S: in stdio.h.  
?S:.

?S:stdio\_base:

?S: This variable defines how, given a FILE pointer, fp, to access the

?S: \_base field (or equivalent) of stdio.h's FILE structure. This will

?S: be used to define the macro FILE\_base(fp).

?S:.

?S:stdio\_bufsiz:

?S: This variable defines how, given a FILE pointer, fp, to determine

?S: the number of bytes store in the I/O buffer pointer to by the

?S: \_base field (or equivalent) of stdio.h's FILE structure. This will

?S: be used to define the macro FILE\_bufsiz(fp).

?S:.

?C:USE\_STDIO\_PTR ~ d\_stdstdio (USE\_STD\_STDIO STDSTDIO):

?C: This symbol is defined if the \_ptr and \_cnt fields (or similar)

?C: of the stdio FILE structure can be used to access the stdio buffer

?C: for a file handle. If this is defined, then the FILE\_ptr(fp)

?C: and FILE\_cnt(fp) macros will also be defined and should be used

?C: to access these fields.

?C:.

?C:FILE\_ptr:

?C: This macro is used to access the \_ptr

field (or equivalent) of the

?C: FILE structure pointed to by its argument. This macro will always be

?C: defined if USE\_STDIO\_PTR is defined.

?C:.

?C:STDIO\_PTR\_LVALUE:

?C: This symbol is defined if the FILE\_ptr macro can be used as an

?C: lvalue.

?C:.

?C:FILE\_cnt:

?C: This macro is used to access the \_cnt field (or equivalent) of the

?C: FILE structure pointed to by its argument. This macro will always be

?C: defined if USE\_STDIO\_PTR is defined.

?C:.

?C:STDIO\_CNT\_LVALUE:

?C: This symbol is defined if the FILE\_cnt macro can be used as an

?C: lvalue.

?C:.

?C:STDIO\_PTR\_LVAL\_SETS\_CNT:

?C: This symbol is defined if using the FILE\_ptr macro as an lvalue

?C: to increase the pointer by n has the side effect of decreasing the

?C: value of File\_cnt(fp) by n.

?C:.

?C:STDIO\_PTR\_LVAL\_NOCHANGE\_CNT:

?C: This symbol is defined if using the FILE\_ptr macro as an lvalue

?C: to increase the pointer by n leaves File\_cnt(fp) unchanged.

?C:.

?C:FILE\_filbuf:

?C: This macro is used to access the internal stdio

`_filbuf` function

?C: (or equivalent), if `STDIO_CNT_LVALUE` and `STDIO_PTR_LVALUE`

?C: are defined. It is typically either `_filbuf` or `__filbuf`.

?C: This macro will only be defined if both `STDIO_CNT_LVALUE` and

?C: `STDIO_PTR_LVALUE` are defined.

?C:.

```
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE /**/
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
```

?W:d\_stdstdio:FILE\_ptr FILE\_cnt FILE\_filbuf

?C:USE\_STDIO\_BASE ~ d\_stdibase:

?C: This symbol is defined if the `_base` field (or similar) of the

?C: `stdio FILE` structure can be used to access the

stdio buffer for

?C: a file handle. If this is defined, then the `FILE_base(fp)` macro

?C: will also be defined and should be used to access this field.

?C: Also, the `FILE_bufsiz(fp)` macro will be defined and should be used

?C: to determine the number of bytes in the buffer. `USE_STDIO_BASE`

?C: will never be defined unless `USE_STDIO_PTR` is.

?C:.

?C:FILE\_base:

?C: This macro is used to access the `_base` field (or equivalent) of the

?C: `FILE` structure pointed to by its argument. This macro will always be

?C: defined if `USE_STDIO_BASE` is defined.

?C:.

?C:FILE\_bufsiz:

?C: This macro is used to determine the number of bytes in the I/O

?C: buffer pointed to by `_base` field (or equivalent) of the `FILE`

?C: structure pointed to its argument. This macro will always be defined

?C: if `USE_STDIO_BASE` is defined.

?C:.

```
?H:?d_stdibase:#$d_stdibase USE_STDIO_BASE /**/
?H:?d_stdibase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdibase:#endif
?H:.
```

?W:d\_stdibase:FILE\_base

```

FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
echo "(Looks like you have stdio.h from BSD.)"
case "$stdio_ptr" in
") stdio_ptr='((fp)->_p)'
ptr_lval=$define
;;
*) ptr_lval=$d_stdio_ptr_lval;;
esac
case "$stdio_cnt" in
") stdio_cnt='((fp)->_r)'
cnt_lval=$define
;;
*) cnt_lval=$d_stdio_cnt_lval;;
esac
case "$stdio_base" in
") stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
esac
case "$stdio_bufsiz" in
") stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
esac
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
echo "(Looks like you have stdio.h from Linux.)"
case "$stdio_ptr" in
") stdio_ptr='((fp)->_IO_read_ptr)'
ptr_lval=$define
;;
*) ptr_lval=$d_stdio_ptr_lval;;
esac
case "$stdio_cnt"
in
") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
cnt_lval=$undef
;;
*) cnt_lval=$d_stdio_cnt_lval;;
esac
case "$stdio_base" in
") stdio_base='((fp)->_IO_read_base)';;
esac
case "$stdio_bufsiz" in
") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
esac

```

```

else
case "$stdio_ptr" in
") stdio_ptr='(fp)->_ptr)'
ptr_lval=$define
;;
*) ptr_lval=$d_stdio_ptr_lval;;
esac
case "$stdio_cnt" in
") stdio_cnt='(fp)->_cnt)'
cnt_lval=$define
;;
*) cnt_lval=$d_stdio_cnt_lval;;
esac
case "$stdio_base" in
") stdio_base='(fp)->_base)';;
esac
case "$stdio_bufsiz" in
") stdio_bufsiz='(fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
esac
fi

```

: test whether \_ptr and \_cnt really work

```
echo "Checking how std your stdio is..." >&4
```

```
$cat >try.c <<EOP
```

```
#include <stdio.h>
```

```
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
```

```
#include <stdlib.h>
```

```
#endif
```

```
#define FILE_ptr(fp) $stdio_ptr
```

```
#define FILE_cnt(fp) $stdio_cnt
```

```
int main() {
```

```
FILE *fp = fopen("try.c", "r");
```

```
char c = getc(fp);
```

```
if
```

```
(
```

```
18 <= FILE_cnt(fp) &&
```

```
strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
```

```
)
```

```
exit(0);
```

```
exit(1);
```

```
}
```

```
EOP
```

```
val="$undef"
```

```
set try
```

```
if eval $compile && $to try.c; then
```

```
if $run ./try; then
```

```
echo "Your stdio acts pretty std."
```

```

    val="$define"
else
    echo "Your stdio isn't very std."
fi
else
    echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works. The Configure tests
# should be changed to correctly detect this, but until then,
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
    case "$gnulibc_version" in
    2.[01]*) ;;
    2.2) ;;
    2.2.[0-9]) ;;
    *) echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
        val="$undef"
        ;;
    esac
    ;;
esac
set d_stdstdio
eval
$setvar

@if STUDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can_ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end

@if STUDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can_cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;

```

```

*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio_filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
: Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
: _fill is for os/2.
xxx='notok'
for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp)' '_fill(fp)' ; do
$cat >try.c <<EOP
#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
FILE *fp = fopen("try.c", "r");
int c;
c = getc(fp);
c = FILE_filbuf(fp); /* Just looking for linker errors.*/
exit(0);
}
EOP
set try
if eval $compile && $to try.c && $run ./try; then
echo "Your stdio appears to use $filbuf"
stdio_filbuf="$filbuf"
xxx='ok'
break
else
echo "Hmm. $filbuf doesn't seem to work."
fi
$rm_try
done
case "$xxx" in
notok) echo "I can't figure out how to access _filbuf"
echo "I'll just have to work around it."
d_stdio_ptr_lval="$undef"

```



```

    d_stdio_cnt_lval="$undef"
    ;;
esac
;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
case "$d_stdio_ptr_lval$d_stdstdio" in
$define$define)
    echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#include <sys/types.h>
int main() {
    FILE *fp = fopen("try.c", "r");
    int c;
    char *ptr;
    size_t cnt;
    if (!fp) {
        puts("Fail even to read");
        exit(1);
    }
    c = getc(fp); /* Read away the first # */
    if (c == EOF) {
        puts("Fail even to read");
        exit(1);
    }
    if (!(
        18 <= FILE_cnt(fp) &&
        strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
    )) {
        puts("Fail even to read");
        exit (1);
    }
}

```

```

ptr = (char*) FILE_ptr(fp);
cnt = (size_t)FILE_cnt(fp);

FILE_ptr(fp) += 42;

if ((char*)FILE_ptr(fp) != (ptr + 42)) {
    printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
    exit (1);
}
if (FILE_cnt(fp) <= 20) {
    printf ("Fail (<20 chars to test)");
    exit (1);
}
if (strcmp(FILE_ptr(fp), "Eat dust sed :-) *\n", 20) != 0) {
    puts("Fail compare");
    exit
(1);
}
if (cnt == FILE_cnt(fp)) {
    puts("Pass_unchanged");
    exit (0);
}
if (FILE_cnt(fp) == (cnt - 42)) {
    puts("Pass_changed");
    exit (0);
}
printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
return 1;

}
EOP
set try
if eval $compile && $to try.c; then
    case ` $run ./try ` in
        Pass_changed)
            echo "Increasing ptr in your stdio decreases cnt by the same amount. Good." >&4
            d_stdio_ptr_lval_sets_cnt="$define" ;;
        Pass_unchanged)
            echo "Increasing ptr in your stdio leaves cnt unchanged. Good." >&4
            d_stdio_ptr_lval_nochange_cnt="$define" ;;
        Fail*)
            echo "Increasing ptr in your stdio didn't do exactly what I expected. We'll not be doing that then." >&4 ;;
        *)
            echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
    esac
else
    echo "It seems we can't set ptr in your stdio. Nevermind." >&4
fi

```

```

$rm_try
;;
esac
@end

@if d_stdibase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
"$d_stdstdio" in
$define)
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
FILE *fp = fopen("try.c", "r");
char c = getc(fp);
if (
19 <= FILE_bufsiz(fp) &&
strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
)
exit(0);
exit(1);
}
EOP
set try
if eval $compile && $to try.c; then
if $run ./try; then
echo "And its _base field acts std."
val="$define"
else
echo "But its _base field isn't std."
fi
else
echo "However, it seems to be lacking the _base field."
fi
$rm_try
;;
esac
set d_stdibase
eval $setvar

@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/compline/d\_stdio.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \  
usemorebits longsize ccflags d\_quad uquadtype Compile rm\_try run

?MAKE: -pick add \$@ %<

?Y:TOP

?S:use64bitint:

?S: This variable conditionally defines the USE\_64\_BIT\_INT symbol,

?S: and indicates that 64-bit integer types should be used

?S: when available. The minimal possible 64-bitness

?S: is employed, just enough to get 64-bit integers into Perl.

?S: This may mean using for example "long longs", while your memory

?S: may still be limited to 2 gigabytes.

?S:.

?S:use64bitall:

?S: This variable conditionally defines the USE\_64\_BIT\_ALL symbol,

?S: and indicates that 64-bit integer types should be used

?S: when available. The maximal

possible

?S: 64-bitness is employed: LP64 or ILP64, meaning that you will

?S: be able to use more than 2 gigabytes of memory. This mode is

?S: even more binary incompatible than USE\_64\_BIT\_INT. You may not

?S: be able to run the resulting executable in a 32-bit CPU at all or

?S: you may need at least to reboot your OS to 64-bit mode.

?S:.

?S:archname64:

?S: This variable is used for the 64-bitness part of \$archname.

?S:.

?C:USE\_64\_BIT\_INT:

?C: This symbol, if defined, indicates that 64-bit integers should

?C: be used when available. If not defined, the native integers

?C: will be employed (be they 32 or 64 bits). The minimal possible

?C: 64-bitness is used, just enough to get 64-bit integers into Perl.

?C: This may mean using for example "long longs", while your memory

?C: may still be limited to 2 gigabytes.

?C:.

?C:USE\_64\_BIT\_ALL:

?C: This symbol, if defined, indicates that 64-bit integers should  
?C: be used when available. If not defined, the native integers  
?C: will be used (be  
they 32 or 64 bits). The maximal possible  
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will  
?C: be able to use more than 2 gigabytes of memory. This mode is  
?C: even more binary incompatible than USE\_64\_BIT\_INT. You may not  
?C: be able to run the resulting executable in a 32-bit CPU at all or  
?C: you may need at least to reboot your OS to 64-bit mode.  
?C:.

```
?H:%<:#ifndef USE_64_BIT_INT
?H:%<:#$use64bitint USE_64_BIT_INT /**/
?H:%<:#endif
?H:%<:#ifndef USE_64_BIT_ALL
?H:%<:#$use64bitall USE_64_BIT_ALL /**/
?H:%<:#endif
?H:
?INIT:archname64="
?LINT:extern cflags
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
"$define"|true|[yY]*)
cat <<EOM >&4
```

\*\*\* Configure -Duselonglong is deprecated, using -Duse64bitint instead.

```
EOM
use64bitint="$define"
;;
esac
case
"$use64bits" in
"$define"|true|[yY]*)
cat <<EOM >&4
```

\*\*\* Configure -Duse64bits is deprecated, using -Duse64bitint instead.

```
EOM
use64bitint="$define"
```

```

;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
use64bitint="$define"
;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
EOM
use64bitint="$define"
;;
esac
case "$uselongs" in
"$define"|true|[yY]*)
cat <<EOM >&4

*** There is no Configure -Duselongs, using -Duse64bitint instead.
EOM
use64bitint="$define"
;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
cat <<EOM >&4

*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
use64bitall="$define"
;;
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
esac
case "$use64bitall" in
"$define"|true|[yY]*)
use64bitint="$define" ;;
esac

case "$longsize" in

```

8) cat <<EOM

You have natively 64-bit long integers.

EOM

```
val="$define"  
;;  
) case "$use64bitint" in  
"$define"|true|[yY]*) dflt='y';;  
*) dflt='n';;  
esac  
case "$d_quad" in  
"$define") ;;  
*) dflt='n' ;;  
esac  
cat <<EOM
```

Perl can be built to take advantage of 64-bit integer types on some systems. To do so, Configure can be run with `-Duse64bitint`. Choosing this option will most probably introduce binary incompatibilities.

If this doesn't make any sense to you, just accept the default `'$dflt'`. (The default has been chosen based on your configuration.)

EOM

```
rp="Try to use 64-bit integers, if available?"  
./myread  
case "$ans" in  
[yY]*) val="$define" ;;  
*) val="$undef" ;;  
esac  
;;  
esac  
set use64bitint  
eval $setvar
```

```
case "$use64bitall" in  
"$define"|true|[yY]*) dflt='y' ;;  
) case "$longsize" in  
8) dflt='y' ;;  
*) dflt='n' ;;  
esac  
;;  
esac  
cat <<EOM
```

You may also

choose to try maximal 64-bitness. It means using as much 64-bitness as possible on the platform. This in turn means even more binary incompatibilities. On the other hand, your platform may not

have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '\$dflt'.  
(The default has been chosen based on your configuration.)

EOM

```
rp="Try to use maximal 64-bit support, if available?"
```

```
./myread
```

```
case "$ans" in
```

```
[yY]*) val="$define" ;;
```

```
*) val="$undef" ;;
```

```
esac
```

```
set use64bitall
```

```
eval $setvar
```

```
case "$use64bitall" in
```

```
"$define")
```

```
case "$use64bitint" in
```

```
"$undef")
```

```
cat <<EOM
```

Since you have chosen a maximally 64-bit build, I'm also turning on  
the use of 64-bit integers.

EOM

```
use64bitint="$define" ;;
```

```
esac
```

```
::
```

```
esac
```

: Look for a hint-file generated 'call-back-unit'. If the

: user has specified that a 64-bit perl is to be built,

: we may need to set or change some other defaults.

```
if $test -f use64bitint.cbu; then
```

```
echo "Your
```

```
platform has some specific hints regarding 64-bit integers, using them..."
```

```
./use64bitint.cbu
```

```
fi
```

```
case "$use64bitint" in
```

```
"$define"|true|[yY]*)
```

: This test was common to all the OpenBSD forks, and seems harmless for

: other platforms:

```
echo " "
```

```
echo "Checking if your C library has broken 64-bit functions..." >&4
```

```
cat >try.c <<EOCP
```

```
#include <stdio.h>
```

```
typedef $uquadtype myULL;
```

```
int main (void)
```

```
{
```

```
struct {
```

```
double d;
```



```

myULL u;
} *p, test[] = {
{4294967303.15, 4294967303ULL},
{4294967294.2, 4294967294ULL},
{4294967295.7, 4294967295ULL},
{0.0, 0ULL}
};
for (p = test; p->u; p++) {
myULL x = (myULL)p->d;
if (x != p->u) {
printf("buggy\n");
return 0;
}
}
printf("ok\n");
return 0;
}
EOCP
set try
if eval $compile_ok; then
libcquad=`$run ./try`
echo "Your C library's 64-bit functions are $libcquad."
else
echo "(I can't seem to compile the test program.)"
echo "Assuming that your C library's 64-bit functions are ok."
libcquad="ok"
fi
$rm_try

case
"$libcquad" in
buggy*)
cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
exit 1
;;
esac
case "$longsize" in
4) case "$archname64" in
") archname64=64int ;;
esac
;;

```

```
esac
;;
esac
```

```
: Look for a hint-file generated 'call-back-unit'. If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
echo "Your platform has some specific hints regarding 64-bit builds, using them..."
. ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
case "$longsize" in
4) case "$archname64" in
"|64int) archname64=64all ;;
esac
;;
esac
;;
esac
```

```
case "$d_quad:$use64bitint" in
$undef:$define)
cat >&4 <<EOF
```

```
*** You have chosen to use 64-bit
integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.
```

```
EOF
exit 1
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/use64bits.U
```

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```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_endpent.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:09 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_endpent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_endpent:  
?S: This variable conditionally defines HAS\_ENDPROTOENT if endprotoent() is  
?S: available to close whatever was being used for protocol queries.  
?S:.  
?C:HAS\_ENDPROTOENT:  
?C: This symbol, if defined, indicates that the endprotoent() routine is  
?C: available to close whatever was being used  
for protocol queries.  
?C:.  
?H:#\$d\_endpent HAS\_ENDPROTOENT /\*\*/  
?H:.  
?LINT:set d\_endpent  
: see if endprotoent exists  
set endprotoent d\_endpent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_endpent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_mblen.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_mblen.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:09:40 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_mblen: Inlibc

?MAKE: -pick add \$@ %<  
?S:d\_mblen:  
?S: This variable conditionally defines the HAS\_MBLEN symbol, which  
?S: indicates to the C program that the mblen() routine is available  
?S: to find the number of bytes in a multibyte character.  
?S:.  
?C:HAS\_MBLEN:  
?C: This  
symbol, if defined, indicates that the mblen routine is available  
?C: to find the number of bytes in a multibyte character.  
?C:.  
?H:#\$d\_mblen HAS\_MBLEN /\*\*/  
?H:.  
?LINT:set d\_mblen  
: see if mblen exists  
set mblen d\_mblen  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_mblen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
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?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_sigsetmk.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:23 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_sigsetmk: Csym Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_sigsetmk:  
?S: This variable conditionally defines the HAS\_SIGSETMASK symbol, which  
?S: indicates to the C program that the sigsetmask() routine is available  
?S: to set current signal mask.  
?S:.  
?C:HAS\_SIGSETMASK (SIGSETMASK):  
?C: This symbol, if defined, indicates that the sigsetmask()  
routine is  
?C: available to set current signal mask. Otherwise, you should probably

?C: emulate this by using signal(), but fear race conditions...

?C:.

?H:#\$d\_sigsetmk HAS\_SIGSETMASK /\*\*/

?H:.

?LINT:set d\_sigsetmk

: see if sigsetmask exists

echo " "

if set sigsetmask val -f d\_sigsetmk; eval \$csym; \$val; then

echo 'sigsetmask() found.' >&4

val="\$define"

else

echo "sigsetmask() not found -- We'll use signal()." >&4

val="\$undef"

fi

set d\_sigsetmk

eval \$setvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_sigsetmk.U

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?RCS: \$Id\$

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?RCS:

?MAKE:i\_poll: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_poll:

?S: This variable conditionally defines the I\_POLL symbol, which

?S: indicates to the C program that it should include <poll.h>.

?S:.

?C:I\_POLL:

?C: This symbol, if defined, indicates that the program may include

?C: <poll.h>. If there is no <poll.h>, then you may check I\_SYS\_POLL

?C: instead to see whether there is a <sys/poll.h> to include.

?C:.

?H:#\$i\_poll I\_POLL /\*\*/

?H:.

?LINT:set i\_poll

: see if there is a poll.h file

set poll.h i\_poll

eval \$inhdr

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_poll.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_statfs\_s: \  
Hasstruct i\_sysparam i\_sysmount i\_systypes \  
i\_sysvfs i\_sysstatfs Setvar

?MAKE: -pick add \$@ %<

?MAKE: -pick add \$@ %<

?MAKE: -pick add \$@ %<

?S:d\_statfs\_s:

?S: This variable conditionally defines the HAS\_STRUCTURE\_STATFS symbol,

?S: which indicates that the struct statfs is supported.

?S:.

?C:HAS\_STRUCTURE\_STATFS:

?C: This symbol, if defined, indicates that the struct statfs

?C: to do statfs() is supported.

?C:.

?H:#\$d\_statfs\_s HAS\_STRUCTURE\_STATFS /\*\*/

?H:.

?LINT:set d\_statfs\_s

: Check for statfs\_s

echo " "

echo "Checking to see if your system supports struct statfs..." >&4

set d\_statfs\_s statfs \$i\_systypes sys/types.h \$i\_sysparam sys/param.h \$i\_sysmount sys/mount.h \$i\_sysvfs sys/vfs.h

\$i\_sysstatfs sys/statfs.h

eval \$hasstruct

case "\$d\_statfs\_s"

in

"\$define") echo "Yes, it does." ;;

\*) echo "No, it doesn't." ;;

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_statfs\_s.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>  
?RCS:  
?RCS: \$Log: lex.U,v \$  
?RCS: Revision 3.0.1.3 1994/10/29 16:22:50 ram  
?RCS: patch36: spurious single quote could cause Configure to crash  
?RCS: patch36: (reported by Xavier Le Vouch <xavierl@eiffel.com>.)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/08/29 16:27:09 ram  
?RCS: patch32: added lexflags variable for lex flags setting  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 15:06:01 ram  
?RCS: patch23: added  
trailing blank line for metalint  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:55 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:lex lexflags: Guess Myread Oldconfig flex test  
?MAKE: -pick add \$@ %<  
?S:lex:  
?S: This variable holds the name of the lexical analyser generator we  
?S: want to use in the Makefile. It can be lex or flex.  
?S:.  
?S:lexflags:  
?S: This variable holds any flags that should be passed to the lexical  
?S: analyzer. It is up to the Makefile to use it.  
?S:.  
: determine lexical analyser generator  
case "\$lex" in  
")  
dflt=lex;;  
\*)  
dflt="\$lex";;  
esac  
echo " "  
if \$test -f "\$flex"; then  
rp='Which lexical analyser generator (lex or flex) shall I use?'  
else  
rp='Which lexical analyser generator shall I use?'

```

fi
./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
./myread
case "$ans"
in
none) lexflags="";;
*) lexflags="$ans";;
esac

@end

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/lex.U
```

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?RCS:

?MAKE:d\_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbnl:

?S: This variable conditionally defines the HAS\_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.

?S:.

?C:HAS\_SCALBNL:

?C: This symbol, if defined, indicates that the scalbnl routine is

?C: available. If ilogbl is also present we can emulate frexpl.

?C:.

?H:#\$d\_scalbnl HAS\_SCALBNL /\*\*/

?H:.

?LINT:set d\_scalbnl

: see if scalbnl exists



```
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_scalbnl.U
```

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?RCS: \$Id\$

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?RCS:

?RCS: This file is included with or a derivative work of a file included

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:multiarch: osname

?MAKE: -pick add \$@ %<

?S:multiarch:

?S: This variable conditionally defines the MULTIARCH symbol

?S: which signifies the presence of multiplatform files.

?S: This is normally set by hints files.

?S:.

?C:MULTIARCH:

?C: This symbol, if defined, signifies that the build

?C: process will produce some binary files that are going to be

?C: used in a cross-platform environment. This is the case for

?C: example with the NeXT "fat" binaries that contain executables

?C: for

several CPUs.

?C:.

?H:#\$multiarch MULTIARCH /\*\*/

?H:.

: Check if is a multiplatform env

case "\$osname" in

darwin) multiarch="\$define" ;;

esac

case "\$multiarch" in

"|[nN]\*") multiarch="\$undef" ;;

esac

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/a_dvisory/multiarch.U
```

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?RCS:

?MAKE:d\_newlocale d\_freelocale d\_uselocale d\_duplocale d\_querylocale i\_xlocale: Inlibc Inhdr

?MAKE: -pick add \$@ %<

?S:d\_newlocale:

?S: This variable conditionally defines the HAS\_NEWLOCALE symbol, which

?S: indicates to the C program that the newlocale() routine is available

?S: to return a new locale object or modify an existing locale object.

?S:.

?S:d\_freelocale:

?S: This variable conditionally defines the HAS\_FREELOCALE symbol, which

?S: indicates to the C program that the freelocale() routine is available

?S: to deallocate the resources associated with a locale object.

?S:.

?S:d\_uselocale:

?S: This variable conditionally defines the HAS\_USELOCALE symbol, which

?S: indicates to the C program that the uselocale() routine is available

?S: to set the current locale  
for the calling thread.

?S:.

?S:d\_duplocale:

?S: This variable conditionally defines the HAS\_DUPLocale symbol, which

?S: indicates to the C program that the duplocale() routine is available

?S: to duplicate a locale object.

?S:.

?S:d\_querylocale:

?S: This variable conditionally defines the HAS\_QUERYLOCALE symbol, which

?S: indicates to the C program that the querylocale() routine is available

?S: to return the name of the locale for a category mask.

?S:.

?S:i\_xlocale:

?S: This symbol, if defined, indicates to the C program that it should

?S: include <xlocale.h> to get uselocale() and its friends

?S:.

?C:HAS\_NEWLOCALE:

?C: This symbol, if defined, indicates that the newlocale routine is

?C: available to return a new locale object or modify an existing

?C: locale object.

?C:.

?C:HAS\_FREELOCALE:

?C: This symbol, if defined, indicates that the freelocale routine is

?C: available to deallocate the resources associated with a locale object.

?C:.

?C:HAS\_USELOCALE:

?C: This symbol, if defined,

indicates that the uselocale routine is

?C: available to set the current locale for the calling thread.

?C:.

?C:HAS\_DUPLOCALE:

?C: This symbol, if defined, indicates that the duplocale routine is

?C: available to duplicate a locale object.

?C:.

?C:HAS\_QUERYLOCALE:

?C: This symbol, if defined, indicates that the querylocale routine is

?C: available to return the name of the locale for a category mask.

?C:.

?C:I\_XLOCALE:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <xlocale.h> to get uselocale() and its friends.

?C:.

?H:#\$d\_newlocale HAS\_NEWLOCALE /\*\*/  
 ?H:#\$d\_freelocale HAS\_FREELOCALE /\*\*/  
 ?H:#\$d\_uselocale HAS\_USELOCALE /\*\*/  
 ?H:#\$d\_duplocale HAS\_DUPLOCALE /\*\*/  
 ?H:#\$d\_querylocale HAS\_QUERYLOCALE /\*\*/  
 ?H:#\$i\_xlocale I\_XLOCALE /\*\*/  
 ?H:.

?LINT:set i\_xlocale  
 ?LINT:set d\_newlocale  
 ?LINT:set d\_freelocale  
 ?LINT:set d\_uselocale  
 ?LINT:set d\_duplocale  
 ?LINT:set d\_querylocale  
 : see if this is an xlocale.h system  
 set xlocale.h i\_xlocale  
 eval \$inhdr

:

see if newlocale exists  
 set newlocale d\_newlocale  
 eval \$inlibc

: see if freelocale exists  
 set freelocale d\_freelocale  
 eval \$inlibc

: see if uselocale exists  
 set uselocale d\_uselocale  
 eval \$inlibc

: see if duplocale exists  
 set duplocale d\_duplocale  
 eval \$inlibc

```
: see if querylocale exists
set querylocale d_querylocale
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_newlocale.U
```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: ssize\_t.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:24:21 ram

?RCS: patch61: integrated perl5 concerns for mis-configured sfio

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:30:28 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:33:06 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:ssize\_t: Myread Typedef

```
ssize_t cat rm \
```

```
+cc +optimize +ccflags +ldflags +libs _o
```

?MAKE: -pick add \$@ %<

?S:ssize\_t:

?S: This variable defines ssize\_t to be something like ssize\_t,

?S: long or int. It is used by functions that return a count

?S: of bytes or an error condition. It must be a signed type.

?S: We will pick a type such that sizeof(SSize\_t) == sizeof(Size\_t).

?S:.

?C:SSize\_t:

?C: This symbol holds the type used by functions that return

?C: a count of bytes or an error condition. It must be a signed type.

?C: It is usually ssize\_t, but may be long or int, etc.

?C: It may be necessary to include <sys/types.h> or <unistd.h>

?C: to get any typedef'ed information.

?C: We will pick a type such that sizeof(SSize\_t) == sizeof(Size\_t).

?C:.

?H:#define SSize\_t \$sizetype /\* signed count of bytes \*/

?H:.

?F:!ssize.out !ssize

: see what type is used for signed size\_t

set ssize\_t sizetype int stdio.h sys/types.h

eval \$typedef

dflt="\$sizetype"

?X: Now check out whether sizeof(SSize\_t) == sizeof(Size\_t)

\$cat

> ssize.c <<EOM

#include <stdio.h>

#include <sys/types.h>

#define Size\_t \$sizetype

#define SSize\_t \$dflt

int main()

{

if (sizeof(Size\_t) == sizeof(SSize\_t))

printf("dflt\n");

else if (sizeof(Size\_t) == sizeof(int))

printf("int\n");

else

printf("long\n");

fflush(stdout);

exit(0);

}

EOM

echo " "

?X: If \$libs contains -lsfio, and sfio is mis-configured, then it

?X: sometimes (apparently) runs and exits with a 0 status, but with no

?X: output!. Thus we check with test -s whether we actually got any

?X: output. I think it has to do with sfio's use of \_exit vs. exit,

?X: but I don't know for sure. --Andy Dougherty 1/27/97.

if \$cc \$optimize \$ccflags \$ldflags -o ssize ssize.c \$libs > /dev/null 2>&1 &&

./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then

ssizetype=`\$cat ssize.out`

echo "I'll be using \$ssizetype for functions returning a byte count." >&4

else

\$cat >&4 <<EOM

Help! I can't compile and run the ssize\_t test program: please enlighten me!

(This

is probably a misconfiguration in your system or libraries, and

you really ought to fix it. Still, I'll try anyway.)

I need a type that is the same size as \$sizetype, but is guaranteed to

be signed. Common values are ssize\_t, int and long.

EOM

```
rp="What signed type is the same size as $sizetype?"
```

```
. /myread
```

```
ssizetype="$ans"
```

```
fi
```

```
$rm -f ssize ssize$_o ssize.*
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/ssizetype.U
```

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```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

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```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: sbrktype.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:09:43 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:sbrktype:
```

```
?S: This variable defines sbrktype to be something like caddr_t, char *,
```

```
?S: or whatever type is used to declare sbrk() in the kernel.
```

```
?S:.
```

```
?C:Caddr_t (SBRKTYPE):
```

```
?C: This symbol holds the type of a core address. It is intended to be used
```

```
?C: to safely
```

```
declare the return type of system calls like sbrk(). It might
```

```
?C: be necessary to include <sys/types.h> as well.
```

```
?C:.
```

```
?H:#define Caddr_t $sbrktype /* <core address> type */
```

```
?H:.
```

```
: see what type sbrk is declared as in the kernel
```

```
case "$sbrktype" in
```

```
")
```

```
if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
```

```
  dflt='caddr_t';
```

```
else
```

```
  dflt='char *';
```

```
fi
;;
*) dflt="$sbrktype"
;;
esac
echo " "
rp="What is the return type of sbrk() on this system?"
./myread
sbrktype="$sans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sbrktype.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ilogbl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ilogbl:

?S: This variable conditionally defines the HAS\_ILOGBL symbol, which

?S: indicates to the C program that the ilogbl() routine is available

?S: for extracting the exponent of long double x as a signed integer.

?S: If scalbnl is also present we can emulate frexpl.

?S:.

?C:HAS\_ILOGBL:

?C: This symbol, if defined, indicates that the ilogbl routine is

?C: available. If scalbnl is also present we can emulate frexpl.

?C:.

?H:#\$d\_ilogbl HAS\_ILOGBL /\*\*/

?H:.

?LINT:set d\_ilogbl

: see if ilogbl exists

set ilogbl d\_ilogbl

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_ilogbl.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_ctime\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
?RCS:  
?MAKE:d\_ctime\_r ctime\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_time i\_systime extern\_C  
?MAKE: -pick add \$@ %<  
?S:d\_ctime\_r:  
?S: This variable conditionally defines the HAS\_CTIME\_R symbol,  
?S: which indicates to the C program that the ctime\_r()  
?S: routine is available.  
?S:.  
?S:ctime\_r\_proto:  
?S: This variable encodes the prototype of ctime\_r.  
?S: It is zero if d\_ctime\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_ctime\_r  
?S: is defined.  
?S:.  
?C:HAS\_CTIME\_R:  
?C: This symbol, if defined, indicates that the ctime\_r routine  
?C: is available to ctime re-entrantly.  
?C:.  
?C:CTIME\_R\_PROTO:  
?C: This  
symbol encodes the prototype of ctime\_r.  
?C: It is zero if d\_ctime\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_ctime\_r  
?C: is defined.  
?C:.  
?H:#\$d\_ctime\_r HAS\_CTIME\_R /\*\*/  
?H:#define CTIME\_R\_PROTO \$ctime\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_ctime\_r\_proto  
: see if ctime\_r exists  
set ctime\_r d\_ctime\_r  
eval \$inlibc  
case "\$d\_ctime\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_time time.h \$i\_systime sys/time.h"  
case "\$d\_ctime\_r\_proto:\$usethreads" in  
":define") d\_ctime\_r\_proto=define  
set d\_ctime\_r\_proto ctime\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_ctime\_r\_proto" in



```

define)
case "$ctime_r_proto" in
"|0) try='char* ctime_r(const time_t*, char*);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
esac
case "$ctime_r_proto" in
"|0) try='char* ctime_r(const time_t*, char*, int);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
esac
case "$ctime_r_proto" in
"|0) try='int ctime_r(const
time_t*, char*);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
esac
case "$ctime_r_proto" in
"|0) try='int ctime_r(const time_t*, char*, int);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
esac
case "$ctime_r_proto" in
"|0) d_ctime_r=undef
ctime_r_proto=0
echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
*) case "$ctime_r_proto" in
REENTRANT_PROTO*) ;;
*) ctime_r_proto="REENTRANT_PROTO_${ctime_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "ctime_r has no prototype, not using it." >&4 ;;
esac
d_ctime_r=undef
ctime_r_proto=0
;;
esac
;;
*) ctime_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_ctime\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: alignbytes.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 16:02:28 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:25:20 ram

?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:23 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:alignbytes: Assert Myread Trylink cat i\_inttypes i\_limits i\_math

?MAKE: -pick add \$@ %<

?S:alignbytes:

?S: This variable holds the number of bytes required  
to align an  
?S: arbitrary standard type. Usual values are 2, 4 and 8.

?S:.

?X: This used to be called ALIGNBYTES, but that conflicts with  
?X: <machines/param.h> in NetBSD.

?C:MEM\_ALIGNBYTES (ALIGNBYTES):

?C: This symbol contains the number of bytes required to align a  
?C: double. Usual values are 2, 4 and 8.

?C:.

?H:#define MEM\_ALIGNBYTES \$alignbytes /\*\*/  
?H:.

?T:alignment result  
: check for alignment requirements  
echo " "  
case "\$alignbytes" in  
")  
echo "Checking alignment constraints..." >&4

for alignment in 8 4 2 1 16 32 error  
do  
\$cat >try.c <<EOCP  
#i\_inttypes I\_INTTYPES  
#ifdef I\_INTTYPES  
#include <inttypes.h>  
#endif  
#i\_limits I\_LIMITS

```

#ifndef I_LIMITS
#include <limits.h>
#endif
#ifdef I_MATH
#include <math.h>
#endif

union u {
void *void_ptr;
void (*func_ptr)(void);
char c;
short s;
int i;
long l;
float f;
double d;
#ifdef LLONG_MAX
long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#ifdef HUGE_VALL
long double ld;
#else
#warning
"HUGE_VALL undefined"
#endif
#ifdef UINT32_MAX
uint32_t u32;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
uint16_t u16;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
#ifdef UINTMAX_MAX
uintmax_t m;
#else
#warning "UINTMAX_MAX undefined"
#endif
}

```

```

#ifdef UINTPTR_MAX
    uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};

struct s {
    char a;
    union u b;
};

#include "static_assert.h"

int
main(void)
{
    STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
    return 0;
}
EOCP

result="
set result
eval $trylink
case "$result" in
"$define") break;;
esac
done

case "$alignment" in
error) dflt='8'
echo "(I can't seem to compile the test program...)" >&4
;;
*) dflt=$alignment
;;
esac
;;
*) dflt="$alignbytes"
;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
./myread
alignbytes="$ans"

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/alignbytes.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_htonl.U,v \$

?RCS: Revision 3.0.1.2 1994/08/29 16:09:25 ram

?RCS: patch32: now properly handles htonl() and friends when macros (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:45:00 ram

?RCS: patch23: now also check for htonl() macro (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:22 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_htonl: Inlibc Setvar i\_niin i\_sysin cat rm contains \  
cppstdin cppflags cppminus

?MAKE: -pick add \$@ %<

?S:d\_htonl:

?S: This variable conditionally

defines HAS\_HTONL if htonl() and its

?S: friends are available to do network order byte swapping.

?S:.

?C:HAS\_HTONL (HTONL):

?C: This symbol, if defined, indicates that the htonl() routine (and

?C: friends htonl() ntohl() ntohs()) are available to do network

?C: order byte swapping.

?C:.

?C:HAS\_HTONS (HTONS):

?C: This symbol, if defined, indicates that the htonl() routine (and

?C: friends htonl() ntohl() ntohs()) are available to do network

?C: order byte swapping.

?C:.

?C:HAS\_NTOHL (NTOHL):

?C: This symbol, if defined, indicates that the ntohl() routine (and

?C: friends htonl() htonl() ntohs()) are available to do network

?C: order byte swapping.

?C:.

?C:HAS\_NTOHS (NTOHS):

?C: This symbol, if defined, indicates that the ntohs() routine (and

?C: friends htonl() htonl() ntohl()) are available to do network

?C: order byte swapping.

?C:.

?H:#\$d\_htonl HAS\_HTONL /\*\*/

?H:#\$d\_htonl HAS\_HTONS /\*\*/

?H:#\$d\_htonl HAS\_NTOHL /\*\*/

?H:#\$d\_htonl HAS\_NTOHS /\*\*/

?H:.

?F:!htonl.c

?LINT:set d\_htonl

:

see if htonl --and friends-- exists

val="

set htonl val

eval \$inlibc

: Maybe they are macros.

case "\$val" in

\$undef)

\$cat >htonl.c <<EOM

#include <stdio.h>

#include <sys/types.h>

#\$i\_niin I\_NETINET\_IN

#\$i\_sysin I\_SYS\_IN

#ifdef I\_NETINET\_IN

#include <netinet/in.h>

#endif

#ifdef I\_SYS\_IN

#include <sys/in.h>

#endif

#ifdef htonl

printf("Defined as a macro.");

#endif

EOM

\$cppstdin \$cppflags \$cppminus < htonl.c >htonl.E 2>/dev/null

if \$contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then

val="\$define"

echo "But it seems to be defined as a macro." >&4

fi

\$rm -f htonl.?

::

esac

set d\_htonl

eval \$setvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_htonl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1 1994/01/24 14:01:49 ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
?X: entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM
```

There is a mailing list for discussion about \$package and related issues.  
This is the preferred place to ask questions about the program and discuss  
modifications and additions with the author and other users. If you are able

to send mail to the Internet, you  
are encouraged to subscribe. You need only  
ever subscribe once, and you can unsubscribe automatically at any time in the  
future. If you have already subscribed and you wish to unsubscribe now, you  
may do so by answering "unsubscribe". Answer "subscribe" to subscribe to the  
list.

EOM

```
rp="Subscribe to or unsubscribe from the $list_name mailing list?"  
dflt=neither  
./myread  
case "$ans" in  
[sS]*) $cat <<EOM
```

You will be sent a message from the list server to let you know when your  
subscription has been successful and telling you how to submit articles and  
how to unsubscribe again when necessary. You may also unsubscribe by running  
this script again and asking it to do so for you.

EOM

```
echo "Sending mail to subscribe you to the $list_name list..." >&4  
$mailer $list_request <<EOM >/dev/null 2>&1  
Precedence: junk  
To: $list_request
```

\$list\_sub

EOM

```
::  
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4  
$mailer $list_request <<EOM >/dev/null 2>&1  
Precedence: junk  
To:  
$list_request
```

\$list\_unsub

EOM

```
::  
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/dist/U/MailList.U
```

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017, Karl Williamson

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_mbrtowc: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mbrtowc:  
?S: This variable conditionally defines the HAS\_MBRTOWC symbol if the  
?S: mbrtowc() routine is available to be used to convert a multi-byte  
?S: character into a wide character.  
?S:.  
?C:HAS\_MBRTOWC:  
?C: This symbol, if defined, indicates that the mbrtowc routine is  
?C: available to convert a multi-byte character into a wide character.  
?C:.  
?H:#\$d\_mbrtowc HAS\_MBRTOWC /\*\*/  
?H:.  
?LINT: set d\_mbrtowc  
: see if mbrtowc exists  
set mbrtowc d\_mbrtowc  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d\_mbrtowc.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1996, Andy Dougherty  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_getpgid.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:33:44 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:d\_getpgid: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_getpgid:  
?S: This variable conditionally defines the HAS\_GETPGID symbol, which  
?S: indicates to the C program that the getpgid(pid) function  
?S: is available to get the process group id.

?S:  
?C:HAS\_GETPGID:  
?C: This symbol, if defined, indicates to the C program  
that  
?C: the getpgid(pid) function is available to get the  
?C: process group id.

?C.:  
?H:#\$d\_getpgid HAS\_GETPGID /\*\*/  
?H.:  
?LINT:set d\_getpgid  
: see if getpgid exists  
set getpgid d\_getpgid  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_getpgid.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: mailer.U,v \$  
?RCS: Revision 3.0.1.3 1995/01/11 15:32:11 ram  
?RCS: patch45: can now use Loc variables since path stripping is deferred  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/06 15:10:04 ram  
?RCS: patch23: ensure full path value is used for rmail also  
?RCS:  
?RCS: Revision 3.0.1.1 1994/01/24 14:14:18 ram  
?RCS: patch16: now use \_sendmail vars and friends for portability issues  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:10 ram  
?RCS: Baseline for dist  
3.0 netwide release.  
?RCS:  
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig  
?MAKE: -pick add \$@ %<  
?S:mailer:  
?S: This variable contains the full pathname of a reasonable mailer.  
?S: By reasonable, we mean some program which can understand internet

```

?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail>".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
if $test -f "$sendmail"; then
    dflt="$sendmail"
elif $test -f "$smail"; then
    dflt="$smail"
elif $test -f "$rmail"; then
    dflt="$rmail"
elif $test -f /bin/mail; then
    dflt=/bin/mail
else
    dflt=$mail
fi
;;
*) dflt="$mailer";;
esac
$cat <<EOM

```

I need the full pathname of the program used to deliver mail on your system. A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose any other program, as long as it can be fed from standard input and will honour any user-supplied headers.

```

EOM
fn=f
rp='Mail
transport agent to be used?'
./getfile
mailer="$ans"

```

Found in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/mailer.U  
No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of

```

?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_gnulibc.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:34:33 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:d\_gnulibc gnulibc\_version: Myread Oldconfig Setvar rm\_try \  
cat Compile run  
?MAKE: -pick add \$@ %<  
?S:d\_gnulibc:  
?S: Defined if we're dealing with the GNU C Library.  
?S:.  
?S:gnulibc\_version:  
?S: This variable contains the version number of the GNU C library.  
?S: It is  
usually something like '2.2.5'. It is a plain " if this  
?S: is not the GNU C library, or if the version is unknown.  
?S:.  
?C:HAS\_GNULIBC:  
?C: This symbol, if defined, indicates to the C program that  
?C: the GNU C library is being used. A better check is to use  
?C: the \_\_GLIBC\_\_ and \_\_GLIBC\_MINOR\_\_ symbols supplied with glibc.  
?C:.  
?H:#\$d\_gnulibc HAS\_GNULIBC /\*\*/  
?H:?%<:#if defined(HAS\_GNULIBC) && !defined(\_GNU\_SOURCE)  
?H:?%<:# define \_GNU\_SOURCE  
?H:?%<:#endif  
?H:.  
?F:!glibc.ver !try  
?LINT: set d\_gnulibc  
?X: gnulibc can be executed by calling \_\_libc\_main().  
?X: Ulrich Drepper doesn't think any other libc does that,  
?X: but we check if it says 'GNU C Library' to be sure.  
?X:  
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to  
?X: have \_\_libc\_main() anymore. :-(. Fortunately, all released  
?X: versions of glibc 2.x.x \_do\_ have CPP variables. For 2.0.6,  
?X: they are:  
?X: #define \_\_GLIBC\_\_ 2  
?X: #define \_\_GLIBC\_MINOR\_\_ 0.  
?X: (The '6' isn't available :-(.  
?X: glibc2.1 will also  
have  
?X: extern const char \* \_\_gnu\_get\_libc\_release(void);  
?X: extern const char \* \_\_gnu\_get\_libc\_version(void);  
?X: functions. --thanks to Andreas Jaeger. --AD 6/1998.  
?X: Although the exact format isn't documented, \_\_gnu\_get\_libc\_version()

?X: returns a simple string '2.1.3' in glibc 2.1.3.

?X:

: Check if we are using the GNU C library

echo " "

echo "Checking for GNU C Library..." >&4

cat >try.c <<'EOCP'

```
/* Find out version of GNU C library. __GLIBC__ and __GLIBC_MINOR__
   alone are insufficient to distinguish different versions, such as
   2.0.6 and 2.0.7. The function gnu_get_libc_version() appeared in
   libc version 2.1.0. A. Dougherty, June 3, 2002.
```

```
*/
```

```
#include <stdio.h>
```

```
int main(void)
```

```
{
```

```
#ifdef __GLIBC__
```

```
# ifdef __GLIBC_MINOR__
```

```
#   if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
```

```
#       include <gnu/libc-version.h>
```

```
       printf("%s\n", gnu_get_libc_version());
```

```
#   else
```

```
       printf("%d.%d\n", __GLIBC__, __GLIBC_MINOR__);
```

```
#
```

```
       endif
```

```
# else
```

```
       printf("%d\n", __GLIBC__);
```

```
# endif
```

```
       return 0;
```

```
#else
```

```
       return 1;
```

```
#endif
```

```
}
```

```
EOCP
```

```
set try
```

```
if eval $compile_ok && $run ./try > glibc.ver; then
```

```
val="$define"
```

```
gnulibc_version=`$cat glibc.ver`
```

```
echo "You are using the GNU C Library version $gnulibc_version"
```

```
else
```

```
val="$undef"
```

```
gnulibc_version="
```

```
echo "You are not using the GNU C Library"
```

```
fi
```

```
$rm_try glibc.ver
```

```
set d_gnulibc
```

```
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/U/compline/d\_gnulibc.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getitimer:

?S: This variable conditionally defines the HAS\_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS\_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d\_getitimer HAS\_GETITIMER /\*\*/

?H:.

?LINT:set d\_getitimer

: see if getitimer exists

set getitimer d\_getitimer

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_getitimer.U

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: man1dir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:10:29 ram

?RCS: patch61: created

?RCS:

?X:

?X: This was originally specific to perl5. Since perl5 has man pages that  
?X: go in both man1/ and man3/ directories, we need both man1 dir  
?X: and man3dir. This unit is basically dist's mansrc.U with  
?X: man1 used instead of man everywhere.  
?X:  
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \  
package test Getfile Prefixit prefixexp  
Prefixup sysman Myread  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:man1dir:  
?S: This variable contains the name of the directory in which manual  
?S: source pages are to be put. It is the responsibility of the  
?S: Makefile.SH to get the value of this into the proper command.  
?S: You must be prepared to do the ~name expansion yourself.  
?S:.  
?S:man1direxp:  
?S: This variable is the same as the man1dir variable, but is filename  
?S: expanded at configuration time, for convenient use in makefiles.  
?S:.  
?S:installman1dir:  
?S: This variable is really the same as man1direxp, unless you are using  
?S: AFS in which case it points to the read/write location whereas  
?S: man1direxp only points to the read-only access location. For extra  
?S: portability, you should only use this variable within your makefiles.  
?S:.  
?S:man1ext:  
?S: This variable contains the extension that the manual page should  
?S: have: one of 'n', 'l', or '1'. The Makefile must supply the '!'.  
?S: See man1dir.  
?S:.  
?T:lookpath  
: determine  
where manual pages go  
set man1dir man1dir none  
eval \$prefixit  
\$cat <<EOM  
  
\$package has manual pages available in source form.  
EOM  
case "\$nroff" in  
nroff)  
echo "However, you don't have nroff, so they're probably useless to you."  
case "\$man1dir" in  
") man1dir="none";;  
esac;;  
esac  
echo "If you don't want the manual sources installed, answer 'none'."

```

case "$man1dir" in
' ') dflt=none
;;
")
lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
lookpath="$lookpath $prefixexp/man/p_man/man1"
lookpath="$lookpath $prefixexp/man/u_man/man1"
lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there. Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
case "$sysman" in
*/?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
*) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
esac
set dflt
eval $prefixup
;;
*)
dflt="$man1dir"
;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
./getfile
if $test "X$man1direxp" != "X$ansexp"; then
installman1dir="
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
") man1dir=' '
installman1dir=";;
esac
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

EOM

```

case "$installman1dir" in
") dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#`";;
*) dflt="$installman1dir";;
esac

```



```
fn=de~
rp='Where will man pages be installed?'
./getfile
installman1dir="$ans"
else
installman1dir="$man1direxp"
fi
```

: What suffix to use on installed man pages

```
case "$man1dir" in
' ')
man1ext='0'
;;
*)
rp="What suffix should be used for the main $spackage man pages?"
case "$man1ext" in
") case "$man1dir" in
*1) dflt=1 ;;
*1p)
dflt=1p ;;
*1pm) dflt=1pm ;;
*l) dflt=l;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L1) dflt=L1;;
*) dflt=1;;
esac
;;
*) dflt="$man1ext";;
esac
./myread
man1ext="$ans"
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/man1dir.U
```

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?RCS: \$Id: d\_endpwent.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: \$Log: d\_endpwent.U,v \$  
?RCS:  
?MAKE:d\_endpwent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_endpwent:  
?S: This variable conditionally defines the HAS\_ENDPWENT symbol, which  
?S: indicates to the C program that the endpwent() routine is available  
?S: for sequential access of the passwd database.  
?S:.  
?C:HAS\_ENDPWENT:  
?C: This symbol, if defined, indicates that the getgrent routine is  
?C: available for finalizing sequential access of the passwd database.  
?C:.  
?H:#\$d\_endpwent HAS\_ENDPWENT /\*\*/  
?H:.  
?LINT:set d\_endpwent  
: see if endpwent exists  
set endpwent d\_endpwent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_endpwent.U

No license file was found, but licenses were detected in source scan.

\* Feel free to modify any of this as the need arises.&nbsp;&nbsp; Note, however,

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/metaconfig.html

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: prototype.U,v \$

?RCS: Revision 3.0.1.3 1994/05/06 15:11:49 ram

?RCS: patch23: ensure cc flags used when looking for prototype support

?RCS:  
?RCS: Revision 3.0.1.2 1994/01/24 14:15:36 ram  
?RCS: patch16: prototype handling macros now appear only when needed  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:03:12 ram  
?RCS: patch6: defines were referring to non-existent VOID symbol  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:36 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:prototype:  
Myread Oldconfig cat +cc +ccflags rm Setvar  
?MAKE: -pick add \$@ %<  
?S:prototype:  
?S: This variable holds the eventual value of CAN\_PROTOTYPE, which  
?S: indicates the C compiler can handle function prototypes.  
?S:.  
?C:CAN\_PROTOTYPE ~ %<:  
?C: If defined, this macro indicates that the C compiler can handle  
?C: function prototypes.  
?C:.  
?C:DOTS:  
?C: This macro is used to specify the ... in function prototypes which  
?C: have arbitrary additional arguments.  
?C:.  
?C:NXT\_ARG:  
?C: This macro is used to separate arguments in the declared argument list.  
?C:.  
?C:P\_FUNC:  
?C: This macro is used to declare "private" (static) functions.  
?C: It takes three arguments: the function type and name, a parenthesized  
?C: traditional (comma separated) argument list, and the declared argument  
?C: list (in which arguments are separated with NXT\_ARG, and additional  
?C: arbitrary arguments are specified with DOTS). For example:  
?C:  
?C: P\_FUNC(int foo, (bar, baz), int bar NXT\_ARG char \*baz[])  
?C:.  
?C:P\_FUNC\_VOID:  
?C: This  
macro is used to declare "private" (static) functions that have  
?C: no arguments. The macro takes one argument: the function type and name.  
?C: For example:  
?C:  
?C: P\_FUNC\_VOID(int subr)  
?C:.  
?C:V\_FUNC:  
?C: This macro is used to declare "public" (non-static) functions.  
?C: It takes three arguments: the function type and name, a parenthesized

?C: traditional (comma separated) argument list, and the declared argument

?C: list (in which arguments are separated with NEXT\_ARG, and additional

?C: arbitrary arguments are specified with DOTS). For example:

?C:

?C: V\_FUNC(int main, (argc, argv), int argc NEXT\_ARG char \*argv[])

?C:.

?C:V\_FUNC\_VOID:

?C: This macro is used to declare "public" (non-static) functions that have

?C: no arguments. The macro takes one argument: the function type and name.

?C: For example:

?C:

?C: V\_FUNC\_VOID(int fork)

?C:.

?C:\_ (P):

?C: This macro is used to declare function parameters for folks who want

?C: to make declarations with prototypes using a

different style than

?C: the above macros. Use double parentheses. For example:

?C:

?C: int main \_((int argc, char \*argv[]));

?C:.

?H:%<:#\$prototype CAN\_PROTOTYPE /\*\*/

?H:%<:#ifdef CAN\_PROTOTYPE

?H:?NEXT\_ARG:#define NEXT\_ARG ,

?H:?DOTS:#define DOTS , ...

?H:?V\_FUNC:#define V\_FUNC(name, arglist, args)name(args)

?H:?P\_FUNC:#define P\_FUNC(name, arglist, args)static name(args)

?H:?V\_FUNC\_VOID:#define V\_FUNC\_VOID(name)name(void)

?H:?P\_FUNC\_VOID:#define P\_FUNC\_VOID(name)static name(void)

?H:?\_:#define \_(args) args

?H:%<:#else

?H:?NEXT\_ARG:#define NEXT\_ARG ;

?H:?DOTS:#define DOTS

?H:?V\_FUNC:#define V\_FUNC(name, arglist, args)name arglist args;

?H:?P\_FUNC:#define P\_FUNC(name, arglist, args)static name arglist args;

?H:?V\_FUNC\_VOID:#define V\_FUNC\_VOID(name)name()

?H:?P\_FUNC\_VOID:#define P\_FUNC\_VOID(name)static name()

?H:?\_:#define \_(args) ()

?H:%<:#endif

?H:.

?W:%<:NEXT\_ARG DOTS V\_FUNC P\_FUNC V\_FUNC\_VOID P\_FUNC\_VOID \_

?LINT:set prototype

: Cruising for prototypes

echo " "

echo "Checking out

function prototypes..." >&4

\$cat >prototype.c <<'EOCP'

int main(int argc, char \*argv[]) {

```

exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
  echo "Your C compiler appears to support function prototypes."
  val="$define"
else
  echo "Your C compiler doesn't seem to understand function prototypes."
  val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/prototype.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \

echo sed mkdir cp touch chmod

?MAKE: -pick add \$@ %<

?Y:TOP

?S:usecrosscompile:

?S: This variable conditionally defines the USE\_CROSS\_COMPILE symbol,

?S: and indicates that our package has been cross-compiled.

?S:.

?S:run:

?S: This variable contains the command used by Configure

?S: to copy and execute a cross-compiled executable in the

?S: target host. Useful and available only during

the build.

?S: Empty string " if not cross-compiling.

?S:.

?S:from:

?S: This variable contains the command used by Configure

?S: to copy files from the target host. Useful and available

?S: only during the build.  
?S: The string ':' if not cross-compiling.  
?S:.  
?S:to:  
?S: This variable contains the command used by Configure  
?S: to copy to from the target host. Useful and available  
?S: only during the build.  
?S: The string ':' if not cross-compiling.  
?S:.  
?S:targetarch:  
?S: If cross-compiling, this variable contains the target architecture.  
?S: If not, this will be empty.  
?S:.  
?C:USE\_CROSS\_COMPILE:  
?C: This symbol, if defined, indicates that the package is being  
?C: cross-compiled.  
?C:.  
?C:CROSS\_TARGET\_ARCH:  
?C: This symbol, if defined, indicates the target architecture  
?C: the package has been cross-compiled to.  
?C: Undefined if not a cross-compile.  
?C:.  
?H:?usecrosscompile:#ifndef USE\_CROSS\_COMPILE  
?H:?usecrosscompile:#\$usecrosscompile USE\_CROSS\_COMPILE /\*\*/  
?H:?usecrosscompile:#define  
CROSS\_TARGET\_ARCH "\$targetarch" /\*\*/  
?H:?usecrosscompile:#endif  
?H:.  
?T:croak pwd exe f q i j cwd  
?LINT:extern usecrosscompile  
?LINT:extern cc  
?LINT:extern usrinc  
?LINT:change usrinc  
?LINT:change ar  
?LINT:change nm  
?LINT:change ranlib  
?LINT:extern targethost  
?LINT:extern targetdir  
?LINT:change targetdir  
?LINT:extern targetuser  
?LINT:change targetuser  
?LINT:extern targetrun  
?LINT:extern targetfrom  
?LINT:extern targetto  
?LINT:extern targetmkdir  
?LINT:change targetrun  
?LINT:change targetfrom  
?LINT:change targetto

```

?LINT:change targetmkdir
?LINT:extern incpth
?LINT:extern libpth
?LINT:change incpth
?LINT:change libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run="
to=:
from=:
usecrosscompile='undef'
targetarch="
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
of the package. This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
$echo "Cross-compiling..."
croak="
case "$cc" in
*-*-gcc)
?X: A cross-compiling gcc, probably.
targetarch=`$echo $cc|$sed 's/-gcc$//'^
ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
nm=$targetarch-nm
ranlib=$targetarch-ranlib
$echo 'extern int foo;' > try.c
set X ` $cc -v -E try.c 2>&1 | \
$awk '/^#include <./^End of search /|$grep '/include'^
shift
if $test $# -gt 0; then
incpth="$incpth $*"
incpth="$echo $incpth|$sed 's/^ //'^"

```

```

echo "Guessing incpth '$incpth.'" >&4
for i in $*; do
  j=""$echo $i|$sed 's,/include$,/lib,`'"
  if
$test -d $j; then
  libpth="$libpth $j"
  fi
done
libpth=""$echo $libpth|$sed 's/^ //'
echo "Guessing libpth '$libpth.'" >&4
  fi
  $rm -f try.c
  ;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*) echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*) echo "Using incpth '$incpth.'" >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*) echo "Using libpth '$libpth.'" >&4 ;;
esac
case "$usrinc" in
")
for i in $incpth; do
if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
  usrinc=$i
  echo "Guessing usrinc $usrinc." >&4
  break
fi
done
  case "$usrinc" in
  ") echo "Usrinc not defined." >&4; croak=y ;;
  esac
  ;;
*) echo "Using usrinc $usrinc." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*) echo "Using targethost $targethost."
>&4
esac
locincpth=' '
loclibpth=' '

```



```

case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
case "$src" in
/*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
*) pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
")
targetdir="{TMPDIR:-/tmp}"
echo "Guessing targetdir $targetdir." >&4
;;
esac
case "$targetuser" in
")
targetuser=root
echo "Guessing targetuser $targetuser." >&4
;;
esac
case "$targetfrom" in
scp) q=-q ;;
*) q=" ;;
esac
case "$targetrun" in
ssh|rsh)
$cat >$run <<EOF
#!/bin/sh

```

```

case "\$1" in
-cwd)
  shift
  cwd=\$1
  shift
  ;;
esac
case "\$cwd" in
") cwd=\$targetdir ;;
esac
exe=\$1
shift
if \$test ! -f \$exe.xok; then
  \$to \$exe
  \$touch \$exe.xok
fi
\$targetrun -l \$targetuser \$targethost "cd \$cwd && ./\$exe \$@"
EOF
;;
*) echo "Unknown targetrun '$targetrun'" >&4
  exit 1
  ;;
esac
case "$targetmkdir" in
*/Cross/mkdir)
  \$cat >\$targetmkdir <<EOF
#!/bin/sh
\$targetrun -l \$targetuser \$targethost "mkdir -p \$@"
EOF
  \$chmod a+rx \$targetmkdir
  ;;
*) echo "Unknown targetmkdir '$targetmkdir'" >&4
  exit 1
  ;;
esac
case "$targetto" in
scp|rcp)
  \$cat >\$to <<EOF
#!/bin/sh
for f in \$@
do
  case "\$f" in
/*)
  \$targetmkdir `dirname \$f`
  \$targetto \$q \$f \$targetuser@\$targethost:\$f || exit 1
  ;;
*)
  \$targetmkdir \$targetdir/\`dirname \$f`

```

```

    targetto $q \ $f $targetuser@$targethost:$targetdir/\ $f || exit 1
    ;;
esac
done
exit 0
EOF
    ;;
cp) $cat >$to <<EOF
#!/bin/sh
for f in \ $@
do
case "\ $f" in
/*)
    $mkdir -p $targetdir/\ `dirname
\ $f`
    $cp \ $f $targetdir/\ $f || exit 1
    ;;
*)
    $targetmkdir $targetdir/\ `dirname \ $f`
    $cp \ $f $targetdir/\ $f || exit 1
    ;;
esac
done
exit 0
EOF
    ;;
*) echo "Unknown targetto "$targetto" ">&4
    exit 1
    ;;
esac
case "$targetfrom" in
scp|rcp)
    $cat >$from <<EOF
#!/bin/sh
for f in \ $@
do
    $rm -f \ $f
    $targetfrom $q $targetuser@$targethost:$targetdir/\ $f . || exit 1
done
exit 0
EOF
    ;;
cp) $cat >$from <<EOF
#!/bin/sh
for f in \ $@
do
    $rm -f \ $f
    cp $targetdir/\ $f . || exit 1

```

```

done
exit 0
EOF
;;
*) echo "Unknown targetfrom '$targetfrom'" >&4
  exit 1
  ;;
esac
if $test ! -f $run; then
  echo "Target 'run' script '$run' not found." >&4
else
  $chmod a+rx $run
fi
if $test ! -f $to; then
  echo "Target 'to' script '$to' not found." >&4
else
  $chmod a+rx $to
fi
if $test ! -f $from; then
  echo "Target 'from' script '$from' not found." >&4
else
  $chmod a+rx $from
fi
if $test ! -f $run -o ! -f $to -o !
-f $from; then
  exit 1
fi
$cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
echo "Cross-compilation is not supported for this package." >&4
exit 1
@end
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Cross.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: orderlib.U,v \$  
?RCS: Revision 3.0.1.4 1997/02/28 16:18:18 ram  
?RCS: patch61: replaced .a with \$\_a all over the place  
?RCS: patch61: likewise for .o replaced by \$\_o  
?RCS: patch61: now uses the ar located by Loc.U  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/11 15:33:04 ram  
?RCS: patch45: allows hint files to specify their own value for 'ranlib'  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/29 16:26:48 ram  
?RCS: patch36: now performs a real small compile for accurate checks (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1  
1994/08/29 16:31:17 ram  
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:26 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs \_a \_o  
?MAKE: -pick add \$@ %<  
?S:orderlib:  
?S: This variable is "true" if the components of libraries must be ordered  
?S: (with `lorder \$\* | tsort`) before placing them in an archive. Set to  
?S: "false" if ranlib or ar can generate random libraries.  
?S:.  
?S:ranlib:  
?S: This variable is set to the pathname of the ranlib program, if it is  
?S: needed to generate random libraries. Set to ":" if ar can generate  
?S: random libraries or if random libraries are not supported  
?S:.  
?F:!foobar  
: see if ar generates random libraries by itself  
echo " "  
echo "Checking how to generate random libraries on your machine..." >&4  
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix  
?X: need an explicit 'ar ts'  
to add the table of contents.  
?X: Still others like Linux run ar ts successfully, but still need ranlib.  
?X: This set of tests seems the minimum necessary to check out Linux.  
?X: We need to explicitly put the entries in out-of-order so that Sun's ld  
?X: will fail. (Otherwise it complains, but gives an exit status of 0.)

```

echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs >/dev/null 2>&1 &&
./foobar >/dev/null 2>&1; then
echo "ar appears to generate random libraries itself."
orderlib=false
ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
$cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs >/dev/null 2>&1 &&
./foobar >/dev/null 2>&1; then
echo "a table of contents
needs to be added with 'ar ts'."
orderlib=false
ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
case "$ranlib" in
:) ranlib=";;
")
ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
$test -f $ranlib || ranlib="
;;
esac
if $test -n "$ranlib"; then
echo "your system has '$ranlib'; we'll use that."
orderlib=false
else
echo "your system doesn't seem to support random libraries"
echo "so we'll use lorder and tsort to order the libraries."
orderlib=true
ranlib=":"
fi
fi
$rm -f foo* bar*

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/dist/U/orderlib.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:39 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
?S: Path to the top directory of the NeWS structure.
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1 /**/
?H:#$d_news0 HAS_NEWS1_0 /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
```

```

: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
d_newshome=`(cd $d_newshome ; /bin/pwd)`
echo "Ah...found myself a NeWS in $d_newshome..."
dflt='y'
rp="Is this the NeWS you want your children to grow up with?"
. UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
echo "ARG! No lib directory in $d_newshome!!!"
: heavy medicine. I wonder what the disease
is...
$rm -f kit*isdone
$rm -rf UU
: bye bye
set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
echo 'Ahh... your running NeWS 1.1! Boy... that makes stuff easy....'
echo " "
d_news="$define"
d_news0="$undef"
if $test -r $d_newshome/lib/NeWS/textcan.ps; then
d_textcan=$d_newshome/lib/NeWS
echo "The textcan.ps stuff seems to be in : $d_textcan"
else
d_textcan=$d_newshome/clientsrc/client/nterm
if $test ! -r $d_textcan/textcan.ps; then
d_news="$undef"
d_news0="$define"
echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
else
echo "The textcan.ps stuff seems to be in : $d_textcan"

```



```

fi
fi
else
echo 'snif... sniff... I smell the dilapidated smell of NeWS 1.0..'
echo 'Some things will not work under NeWS 1.0...'
d_news="$undef"
d_news0="$define"
fi
cd UU

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_NeWS.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2 1993/10/16 13:50:12 ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:07:26 ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:28 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
?MAKE:i_string strings:
test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.

```

```

?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
?C:.
?H:#$i_string I_STRING /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
if $test "$strings" && $test -r "$strings"; then
echo "Using <string.h> instead of <strings.h>." >&4
val="$define"
else
val="$undef"
strings=`./findhdr strings.h`
if $test "$strings" && $test -r "$strings"; then
echo "Using <strings.h> instead of <string.h>." >&4
else
./warn "No string header found -- You'll surely
have problems."
fi
fi
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*) strings=`./findhdr string.h`;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/i_string.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:51 ram

```

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_rdchk: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_rdchk:

?S: This variable conditionally defines the HAS\_RDCHK symbol, which

?S: indicates to the C program that the rdchk() routine is available

?S: to find out if there is input pending on an IO channel.

?S:.

?C:HAS\_RDCHK (RDCHK):

?C: This symbol, if defined, indicates that the rdchk routine

is available

?C: to find out if there is input pending on an IO channel. Generally

?C: the routine is used only if FIONREAD and O\_NDELAY aren't available.

?C:.

?H:#\$d\_rdchk HAS\_RDCHK /\*\*/

?H:.

?LINT:set d\_rdchk

: see if rdchk exists

set rdchk d\_rdchk

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_rdchk.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \  
 nvEUformat nvFUformat nvGUformat \  
 nveformat nvfformat nviformat: \  
 ivsize longsize intsize shortsize \  
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \  
 uselongdouble d\_longdbl usequadmath d\_PRIgldbl \  
 sPRIEUdbl sPRIFUdbl sPRIGUdbl sPRIeldbl sPRIfldbl sPRIgldbl \  
 test echo

?MAKE: -pick add \$@ %<

?S:ivdformat:

?S: This variable contains the format string used for printing

?S: a Perl IV as a signed decimal integer.

?S:.

?S:uvuformat:

?S: This variable contains the format string used for printing  
?S: a Perl UV as an unsigned decimal integer.  
?S:.  
?S:uvoformat:  
?S: This variable contains the format string used for printing  
?S: a Perl UV as an unsigned  
octal integer.  
?S:.  
?S:uvxformat:  
?S: This variable contains the format string used for printing  
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.  
?S:.  
?S:uvXUformat:  
?S: This variable contains the format string used for printing  
?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.  
?S:.  
?S:nveformat:  
?S: This variable contains the format string used for printing  
?S: a Perl NV using %e-ish floating point format.  
?S:.  
?S:nvfformat:  
?S: This variable contains the format string used for printing  
?S: a Perl NV using %f-ish floating point format.  
?S:.  
?S:nvgformat:  
?S: This variable contains the format string used for printing  
?S: a Perl NV using %g-ish floating point format.  
?S:.  
?S:nvEUformat:  
?S: This variable contains the format string used for printing  
?S: a Perl NV using %E-ish floating point format.  
?S:.  
?S:nvFUformat:  
?S: This variable contains the format string used for printing  
?S: a Perl NV using %F-ish floating point format.  
?S:.  
?S:nvGUformat:  
?S: This  
variable contains the format string used for printing  
?S: a Perl NV using %G-ish floating point format.  
?S:.  
?C:IVdf:  
?C: This symbol defines the format string used for printing a Perl IV  
?C: as a signed decimal integer.  
?C:.  
?C:UVuf:  
?C: This symbol defines the format string used for printing a Perl UV  
?C: as an unsigned decimal integer.

?C:.

?C:UVof:  
?C: This symbol defines the format string used for printing a Perl UV  
?C: as an unsigned octal integer.

?C:.

?C:UVxf:  
?C: This symbol defines the format string used for printing a Perl UV  
?C: as an unsigned hexadecimal integer in lowercase abcdef.

?C:.

?C:UVXf:  
?C: This symbol defines the format string used for printing a Perl UV  
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.

?C:.

?C:NVef:  
?C: This symbol defines the format string used for printing a Perl NV  
?C: using %e-ish floating point format.

?C:.

?C:NVff:  
?C: This symbol defines the format string used for printing a Perl NV  
?C: using %f-ish floating point  
format.

?C:.

?C:NVgf:  
?C: This symbol defines the format string used for printing a Perl NV  
?C: using %g-ish floating point format.

?C:.

?C:NVEf:  
?C: This symbol defines the format string used for printing a Perl NV  
?C: using %E-ish floating point format.

?C:.

?C:NVff:  
?C: This symbol defines the format string used for printing a Perl NV  
?C: using %F-ish floating point format.

?C:.

?C:NVGf:  
?C: This symbol defines the format string used for printing a Perl NV  
?C: using %G-ish floating point format.

?C:.

?H:#define IVdf \$ivdformat /\*\*/  
?H:#define UVuf \$uvuformat /\*\*/  
?H:#define UVof \$uvoformat /\*\*/  
?H:#define UVxf \$uvxformat /\*\*/  
?H:#define UVXf \$uvXUformat /\*\*/  
?H:#define NVef \$nveformat /\*\*/  
?H:#define NVff \$nvffformat /\*\*/  
?H:#define NVgf \$nvgformat /\*\*/  
?H:#define NVEf \$nvEUformat /\*\*/  
?H:#define NVFf \$nvFUformat /\*\*/

```

?H:#define NVGf $nvGUformat /**/
?H.:
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
internal types..." >&4

if $test X"$ivsize" = X8; then
ivdformat="$sPRId64"
uvuformat="$sPRIu64"
uvoformat="$sPRIo64"
uvxformat="$sPRIx64"
uvXUformat="$sPRIXU64"
else
if $test X"$ivsize" = X"$longsize"; then
ivdformat="ld"
uvuformat="lu"
uvoformat="lo"
uvxformat="lx"
uvXUformat="lX"
else
if $test X"$ivsize" = X"$intsize"; then
ivdformat="d"
uvuformat="u"
uvoformat="o"
uvxformat="x"
uvXUformat="X"
else
: far out
if $test X"$ivsize" = X"$shortsize"; then
ivdformat="hd"
uvuformat="hu"
uvoformat="ho"
uvxformat="hx"
uvXUformat="hX"
fi
fi
fi
fi

if $test X"$usequadmath" = X"$define"; then
nveformat="Qe"
nvffformat="Qf"
nvgformat="Qg"
nvEUformat="QE"
nvFUformat="QF"
nvGUformat="QG"
else

```

```

    if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
nveformat="$sPRIeldbl"
nvffformat="$sPRIfldbl"
nvgformat="$sPRIgldbl"
nvEUformat="$sPRIEUldbl"
nvFUformat="$sPRIFUldbl"
nvGUformat="$sPRIGUldbl"
    else
nveformat="e"
nvffformat="f"
nvgformat="g"
nvEUformat="E"
nvFUformat="F"
nvGUformat="G"
    fi
fi

case "$ivdformat" in
) echo "$0: Fatal: failed to find format strings, cannot continue." >&4
    exit 1
    ;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/perlxf.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: Protochk.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X: $i_system sys/time.h
?X: $i_sysselect sys/select.h
?X: $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *));'
?X: if ./protochk "$stry" $hdrs; then
?X: echo "Your system accepts $xxx for the arguments to select."

```

?X: fi

?X: (Of course select is harder, since the first arg can be int,

?X: size\_t, or unsigned long, and the last arg may or may not have a

?X: 'const' before the 'struct timeval' :-(. Also SunOS

4.1.3 doesn't

?X: provide a select prototype so the compiler accepts anything :-).

?X:

?X: The C compiler on QNX warns about invalid pointer types, but

?X: still exits with a 0 exit status, so it's not much help here.

?X: (It does correctly detect incorrect non-pointer arguments).

?X: Still, since QNX is a POSIX-ish system, just make your first

?X: a POSIX-ish one, and QNX will probably accept it.

?X:

?X: For determining argument types, your compiler must support

?X: prototypes, and the header files must use them. Determining

?X: return types, however, is easier. Just give an ridiculous

?X: return type, something like

?X: ./protochk 'extern int atof \_((void));' \$i\_stdlib stdlib.h

?X: that should surely fail if atof() is defined in <stdlib.h>

?X:

?X: There is also an 'escape' hatch built in. If you have a pair

?X: of args 'literal 'stuff' then 'stuff' gets included literally

?X: into the test program. This could be useful for doing something

?X: like

?X: hdrs="\$define stdio.h

?X: \$define

sys/types.h"

?X: ./protochk 'extern int fsetpos(FILE \*, Fpos\_t);' \$args \  
 ?X: 'literal' '#define Fpos\_t long long'

?X: but you have to be really careful about the spaces in "literal".

?X:

?X: Andy Dougherty Feb. 1998

?MAKE:Protochk: cat rm\_try startsh eunicefix +cc +optimize +ccflags \  
 i\_pthread usethreads

?MAKE: -pick add \$@ %<

?F:./protochk

?X: Comfort metalint. All these are actually used in the protochk script.

?T:foo status pthread\_h\_done

?LINT: change cc optimize ccflags define rm\_try

?LINT: extern pthread\_h\_first

?LINT: change pthread\_h\_first

?LINT: change usethreads

?LINT: change i\_pthread

: define a function to check prototypes

\$cat > protochk <<EOSH

\$startsh

cc="\$cc"

optimize="\$optimize"



```
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH
```

```
$cat >> protochk <<'EOSH'
```

```
$rm_try
foo="$1"
shift
while test $# -ge 2; do
  case "$1" in
    $define) echo "#include <$2>" >> try.c ;;
    literal)
      echo "$2" >> try.c ;;
    esac
    # Extra magic for the benefit of systems that need pthread.h
    # to be included early to correctly detect threadsafe functions.
    # Such functions must guarantee themselves, though, that the usethreads
    # and i_pthread have been defined, before calling protochk.
    if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
      echo "#include <pthread.h>" >> try.c
      pthread_h_done=yes
    fi
    shift 2
  done
  cat >> try.c <<'EOCP'
  #define _(args) args
  EOCP
  echo "$foo" >> try.c
  ?X: Just so we have something to compile.
  echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
  $cc $optimize $ccflags -c try.c > /dev/null 2>&1
  status=$?
  $rm_try
  exit $status
EOSH
chmod +x protochk
$unicefix protochk
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/protos/Protochk.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdbool.U,v $
?RCS:
?RCS: Copyright (c) 2011 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE:-pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
    return
    x ? 1 : 0;
}
int main(int argc, char **argv)
{
    return func(0);
}
EOCP
set try
if eval $compile; then
    echo "<stdbool.h> found." >&4
    val="$define"
else
    echo "<stdbool.h> NOT found." >&4
    val="$undef"
```

```
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_stdbool.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_setregid.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:07:12 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_setregid d_setresgid: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_setregid:
```

```
?S: This variable conditionally defines HAS_SETREGID if setregid() is
```

```
?S: available to change the real and effective gid of the current
```

```
?S: process.
```

```
?S:.
```

```
?S:d_setresgid:
```

```
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
```

```
?S: available to change
```

```
the real, effective and saved gid of the current
```

```
?S: process.
```

```
?S:.
```

```
?C:HAS_SETREGID (SETREGID):
```

```
?C: This symbol, if defined, indicates that the setregid routine is
```

```
?C: available to change the real and effective gid of the current
```

```
?C: process.
```

```
?C:.
```

```
?C:HAS_SETRESGID (SETRESGID):
```

```
?C: This symbol, if defined, indicates that the setresgid routine is
```

```
?C: available to change the real, effective and saved gid of the current
```

```
?C: process.
```

```
?C:.
```

```
?H:#$d_setregid HAS_SETREGID /**/
```

?H:#\$d\_setresgid HAS\_SETRESGID /\*\*/

?H:.

?LINT: set d\_setregid d\_setresgid

: see if setregid exists

set setregid d\_setregid

eval \$inlibc

set setresgid d\_setresgid

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_setregid.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_loconv.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_loconv.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:14:11 ram

?RCS: patch36: created by ADO

?RCS:

?MAKE:d\_loconv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_loconv:

?S: This variable conditionally defines HAS\_LOCALECONV if localeconv() is

?S: available for numeric and monetary formatting conventions.

?S:.

?C:HAS\_LOCALECONV:

?C: This symbol, if defined, indicates that the localeconv routine is

?C: available for numeric and monetary formatting conventions.

?C:.

?H:#\$d\_loconv HAS\_LOCALECONV /\*\*/

?H:.

?LINT:set d\_loconv

: see if localeconv exists

set localeconv d\_loconv

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_locconv.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: End.U,v \$

?RCS: Revision 3.0 1993/08/18 12:04:51 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit serves as the goal which forces make to choose all the units that

?X: ask questions. The \$W on the ?MAKE: line is the list of all symbols wanted.

?X: To force any unit to be included, copy this unit to your private U directory

?X: and add the name of the unit desired to the ?MAKE: dependency line.

?X:

?MAKE:End perllibs: \$W cppstdin gzip zip

libs usedl osname osvers

?MAKE: -pick add \$@ %<

?S:perllibs:

?S: The list of libraries needed by Perl only (any libraries needed

?S: by extensions only will be dropped, if using dynamic loading).

?S:.

?INIT:perllibs="

?LINT:use \$W

?LINT:use gzip zip

?LINT:change cppstdin

: Remove libraries needed only for extensions

: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.

: The exception is SunOS 4.x, which needs them.

case "\${osname}X\${osvers}" in

sunos\*4\*)

perllibs="\$libs"

;;

\*) case "\$usedl" in

\$define|true|[yY]\*)

set X `echo " \$libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm\_compat @ @' -e 's@ -ldb @ @' -e 's@ -ldb @ @`

shift

```
perllibs="$*"
;;
*) perllibs="$libs"
;;
esac
;;
esac
```

?X: If the user has the cppstdin wrapper, perl.c will try to call  
?X: CPPSTDIN, but that will point to a location in the build  
?X: directory, not the installed version!. Here, we'll just strip the  
?X: name down to 'cppstdin',  
and rely on the fact that perl.c will  
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'  
?X: will continue to work.

: Remove build directory name from cppstdin so it can be used from  
: either the present location or the final installed location.

```
echo " "
```

: Get out of the UU directory to get correct path name.

```
cd ..
```

```
case "$cppstdin" in
```

```
`pwd`/cppstdin)
```

```
echo "Stripping down cppstdin path name"
```

```
cppstdin=cppstdin
```

```
;;
```

```
esac
```

```
cd UU
```

: end of configuration questions

```
echo " "
```

```
echo "End of configuration questions."
```

```
echo " "
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/End.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Unix.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:20:06 ram  
?RCS: patch61: created  
?RCS:  
?X:  
?X: The purpose of this unit is to define things that are common across all  
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX  
?X: environment, then some of the following variables can be redefined in hint  
?X: files.  
?X:  
?MAKE:Unix \_exe \_a \_o exe\_ext lib\_ext obj\_ext path\_sep \  
firstmakefile archobjs rm\_try: Oldconfig rm  
?MAKE: -pick add \$@ %<  
?S: \_exe:  
?S: This  
variable defines the extension used for executable files.  
?S: DJGPP, Cygwin and OS/2 use '.exe'. Stratus VOS uses '.pm'.  
?S: On operating systems which do not require a specific extension  
?S: for executable files, this variable is empty.  
?S:.  
?S: \_a:  
?S: This variable defines the extension used for ordinary library files.  
?S: For unix, it is '.a'. The '.' is included. Other possible  
?S: values include '.lib'.  
?S:.  
?S: \_o:  
?S: This variable defines the extension used for object files.  
?S: For unix, it is '.o'. The '.' is included. Other possible  
?S: values include '.obj'.  
?S:.  
?S: firstmakefile:  
?S: This variable defines the first file searched by make. On unix,  
?S: it is makefile (then Makefile). On case-insensitive systems,  
?S: it might be something else. This is only used to deal with  
?S: convoluted make depend tricks.  
?S:.  
?S: archobjs:  
?S: This variable defines any additional objects that must be linked  
?S: in with the program on this architecture. On unix, it is usually  
?S: empty.  
It is typically used to include emulations of unix calls  
?S: or other facilities. For perl on OS/2, for example, this would  
?S: include os2/os2.obj.  
?S:.  
?X: Metaconfig's Obsolete symbol stuff is too over-eager. In the  
?X: perl sources, it picks up things like "P" and "FLOCK" that are  
?X: not used in the way Metaconfig thinks they are. Thus I can't  
?X: just declare these obsolete and then run metaconfig -o.

?X: Instead, I'll just handle them here.

?X: Sadly, history has conspired to give us a web of definitions;

?X: this could have been much simpler.

?S:lib\_ext:

?S: This is an old synonym for \_a.

?S:.

?S:exe\_ext:

?S: This is an old synonym for \_exe.

?S:.

?S:obj\_ext:

?S: This is an old synonym for \_o.

?S:.

?S:path\_sep:

?S: This is an old synonym for p\_ in Head.U, the character

?S: used to separate elements in the command shell search PATH.

?S:.

?S:rm\_try:

?S: This is a cleanup variable for try test programs.

?S: Internal Configure use only.

?S:.

?LINT: change p\_

?INIT::

Trailing extension. Override this in a hint file, if needed.

?INIT:: Extra object files, if any, needed on this platform.

?INIT:archobjs="

: Define several unixisms.

: Hints files or command line option can be used to override them.

: The convoluted testing is in case hints files set either the old

: or the new name.

```

case "$_exe" in
") case "$exe_ext" in
") ;;
*) _exe="$exe_ext" ;;
esac
;;
esac
case "$_a" in
") case "$lib_ext" in
") _a='.a';;
*) _a="$lib_ext" ;;
esac
;;
esac
case "$_o" in
") case "$obj_ext" in
") _o='.o';;
*) _o="$obj_ext";;
esac

```



```

;;
esac
case "$p_" in
") case "$path_sep" in
") p_=':':;
*) p_="$path_sep";;
esac
;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

```

```

@if firstmakefile
: Which makefile gets called first. This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/Unix.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: usedtrace.U,v $
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
?S:.

```

```

?C:USE_DTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE /**/
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'

```

```
cat <<EOM
```

Perl can be built to support DTrace on platforms that support it.  
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.

```
EOM
```

```

while $test 1 ; do
case "$usedtrace" in
$define|true|[yY]*)
dflt='y'
;;
$undef|false|[nN]*)
dflt='n'
dflt_dtrace=""
;;
?*)
dflt='y'
dflt_dtrace=$usedtrace
;;
*)
dflt='n'
;;
esac

```

```
rp='Support DTrace if available?'
```

```
./myread
```

```
case "$ans" in
```

```
y|Y) val="$define" ;;
```

```
*) val="$undef" ;;
```

```
esac
```

```
set usedtrace
```

```
eval $setvar
```

```

test "X$usedtrace" != "X$define" && break

echo " "
rp='Where is the dtrace executable?'
dflt=$dflt_dtrace
./getfile
val="$ans"
set dtrace
eval $setvar

if $test -f $dtrace
then
if $dtrace -h -s ../perldtrace.d \
-o perldtrace.tmp >/dev/null 2>&1 \
&& rm -f perldtrace.tmp
then
echo " "
echo "Good: your $dtrace knows about the -h flag."
else
cat >&2 <<EOM

*** $me: Fatal Error: $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
compile a D
*** program into a C header. Can't continue.

EOM
exit 1
fi
break;
fi

case "$fastread" in
yes)
cat >&2 <<EOM

*** $me: Fatal Error: $dtrace not found.
*** Can't continue.

EOM
exit 1
;;
*)
echo "*** $dtrace was not found."
echo " "
;;

```

esac  
done

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/usedtrace.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

\*

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\*

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\* of the source tree for dist 4.0.

\*

\* \$Log: setsid.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:47 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/C/fake/setsid.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_alarm.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_alarm.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:06:58 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_alarm: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_alarm:

?S: This variable conditionally defines the HAS\_ALARM symbol, which

?S: indicates to the C program that the alarm() routine is available.

?S:.

?C:HAS\_ALARM :

?C: This symbol, if defined, indicates that the alarm routine is

?C: available.

?C:.

?H:#\$d\_alarm

```
HAS_ALARM /**/
```

?H:.

?LINT:set d\_alarm

: see if alarm exists

set alarm d\_alarm

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_alarm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_getlogin.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:07:41 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_getlogin: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getlogin:

?S: This variable conditionally defines the HAS\_GETLOGIN symbol, which

?S: indicates to the C program that the getlogin() routine is available

?S: to get the login name.

?S:.

?C:HAS\_GETLOGIN :

?C: This symbol,

if defined, indicates that the getlogin routine is

?C: available to get the login name.

?C:.  
?H:#\$d\_getlogin HAS\_GETLOGIN /\*\*/  
?H:.  
?LINT:set d\_getlogin  
: see if getlogin exists  
set getlogin d\_getlogin  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_getlogin.U

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: models.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 16:13:17 ram  
?RCS: patch61: added ?F: metalint hint  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:02:39 ram  
?RCS: patch6: added default for large  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:17 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \  
Loc Warn contains rm  
?MAKE: -pick add \$@ %<  
?S:models:  
?S: This variable contains the list of memory models supported by  
this  
?S: system. Possible component values are none, split, unsplit, small,  
?S: medium, large, and huge. The component values are space separated.  
?S:.  
?S:split:  
?S: This variable contains a flag which will tell the C compiler and loader  
?S: to produce a program that will run in separate I and D space, for those  
?S: machines that support separation of instruction and data space. It is  
?S: up to the Makefile to use this.  
?S:.

?S:small:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program running with a small memory model. It is up to

?S: the Makefile to use this.

?S:.

?S:medium:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program running with a medium memory model. If the

?S: medium model is not supported, contains the flag to produce large

?S: model programs. It is up to the Makefile to use this.

?S:.

?S:large:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to

produce a program running with a large memory model. It is up to

?S: the Makefile to use this.

?S:.

?S:huge:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program running with a huge memory model. If the

?S: huge model is not supported, contains the flag to produce large

?S: model programs. It is up to the Makefile to use this.

?S:.

?T:unsplit tans modelcc

?F:!pdp11

?D:large=""

?LINT:extern cc

: see what memory models we can support

case "\$models" in

")

?X: We may not use Cppsym or we get a circular dependency through cc.

?X: But this should work regardless of which cc we eventually use.

\$cat >pdp11.c <<'EOP'

int main() {

#ifdef pdp11

exit(0);

#else

exit(1);

#endif

}

EOP

?X: Run cc in a subshell in case they don't have a 'cc' command.

?X: Presumably they do have gcc or something.

case "\$cc" in

") modelcc="\$cc" ;;

\*) modelcc="cc" ;;

esac

( \$modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1

```

if $test -f pdp11 && ./pdp11 2>/dev/null;
then
  dflt='unsplit split'
else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
      dflt='small'
    else
      dflt=""
    fi
    if $test -d /lib/medium || $test -d /usr/lib/medium; then
      dflt="$dflt medium"
    fi
    if $test -d /lib/large || $test -d /usr/lib/large; then
      dflt="$dflt large"
    fi
    if $test -d /lib/huge || $test -d /usr/lib/huge; then
      dflt="$dflt huge"
    fi
  esac
fi;;
*) dflt="$models";;
esac
$cat <<EOM

```

Some systems have different model sizes. On most systems they are called small, medium, large, and huge. On the PDP11 they are called unsplit and split. If your system doesn't support different memory models, say "none". If you wish to force everything to one memory model, say "none" here and put the appropriate flags later when it asks you for other cc and ld flags. Venix systems may wish to put "none" and let the compiler figure things out. (In the following question multiple model names should be space separated.)

The default for most systems is "none".

```

EOM
rp="Which memory models are supported?"
./myread
models="$ans"

case "$models" in
none)
small=""
medium=""
large=""

```



```

huge="
unsplit="
split="
;;
*split)
case "$split" in
") if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
    dflt='-i'
    else
    dflt='none'
    fi;;
*) dflt="$split";;
esac
rp="What flag indicates separate I and D space?"
./myread
tans="$ans"
case "$tans" in
none) tans="";;
esac
split="$tans"
unsplit="";;
*large*|*small*|*medium*|*huge*)
case "$models" in
*large*)
case "$large" in
") dflt='-Ml';;
*) dflt="$large";;
esac
rp="What flag indicates large model?"
./myread
tans="$ans"
case "$tans" in
none) tans="";;
esac
large="$tans";;
*) large="";;
esac
case "$models" in
*huge*) case "$huge" in
")
dflt='-Mh';;
*) dflt="$huge";;
esac
rp="What flag indicates huge model?"
./myread
tans="$ans"
case "$tans" in

```

```

none) tans="";
esac
huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
") dflt='-Mm';;
*) dflt="$medium";;
esac
rp="What flag indicates medium model?"
./myread
tans="$ans"
case "$tans" in
none) tans="";
esac
medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
") dflt='none';;
*) dflt="$small";;
esac
rp="What flag indicates small model?"
./myread
tans="$ans"
case "$tans" in
none) tans="";
esac
small="$tans";;
*) small="";;
esac
;;
*)
./warn "Unrecognized memory models--you may have to edit Makefile.SH"
;;
esac
$rm -f pdp11.* pdp11

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/models.U
```

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links. This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
in
$define|true|[yY]*)
echo " "
case "$src" in
"|.") echo "Cannot create symlinks in the original directory." >&4
exit 1
;;
*) case "$lns:$issymlink" in
*"ln"* -s:"*test -"?)
echo "Creating the symbolic links..." >&4
echo "(First creating the subdirectories..." >&4
cd ..
awk '{print $1}' $src/MANIFEST | grep / | sed 's:[^/]*$::' | \
sort -u | while true
do
read dir
test -z "$dir" && break
./UU/mkdirp $dir 2>/dev/null
if test -d $dir; then
: ok
else
echo "Failed to create '$dir'. Aborting." >&4
exit 1
fi
done
echo "(Now creating the symlinks..." >&4

```

```

awk '{print $1}' $src/MANIFEST | while true; do
  read filename
  test -z "$filename" && break
  if test -f $filename; then
    if $issymlink $filename; then
      rm -f $filename
    fi
  fi
  if test -f $filename; then
    echo "$filename already exists, not symlinking."
  else
?X: Note that the following works because "$pkgsrc" is absolute
    ln
    -s $pkgsrc/$filename $filename
  fi
done
?X: Check that everything was correctly copied
  echo "(Checking current directory...)" >&4
  cd UU
  awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
  rm -f missing
  tmppwd=`pwd`
  for filelist in x??: do
    (cd ..; ls `cat "$tmppwd/$filelist" ` \
    >/dev/null 2>>"$tmppwd/missing")
  done
  if test -s missing; then
    echo "Failed duplication of source tree. Aborting." >&4
    exit 1
  fi
  ;;
*) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
  ;;
esac
  ;;
esac
  ;;
esac
  ;;
esac
@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Mksymlinks.U

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?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: \$Log: d\_sigsetjmp.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:44:33 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:d\_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm  
?MAKE: -pick add \$@ %<  
?S:d\_sigsetjmp:  
?S: This variable conditionally defines the HAS\_SIGSETJMP symbol,  
?S: which indicates that the sigsetjmp() routine  
is available to  
?S: call setjmp() and optionally save the process's signal mask.  
?S:.  
?C:HAS\_SIGSETJMP:  
?C: This variable indicates to the C program that the sigsetjmp()  
?C: routine is available to save the calling process's registers  
?C: and stack environment for later use by siglongjmp(), and  
?C: to optionally save the process's signal mask. See  
?C: Sigjmp\_buf, Sigsetjmp, and Siglongjmp.  
?C:.  
?C:Sigjmp\_buf:  
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.  
?C:.  
?C:Sigsetjmp:  
?C: This macro is used in the same way as sigsetjmp(), but will invoke  
?C: traditional setjmp() if sigsetjmp isn't available.  
?C: See HAS\_SIGSETJMP.  
?C:.  
?C:Siglongjmp:  
?C: This macro is used in the same way as siglongjmp(), but will invoke  
?C: traditional longjmp() if siglongjmp isn't available.  
?C: See HAS\_SIGSETJMP.  
?C:.  
?H:%<:#\$d\_sigsetjmp HAS\_SIGSETJMP /\*\*/  
?H:%<:ifdef HAS\_SIGSETJMP  
?H:%<:define Sigjmp\_buf sigjmp\_buf

```

?H:%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
?H:%<:#define
  Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:%<:#else
?H:%<:#define Sigjmp_buf jmp_buf
?H:%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
  $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
  if (sigsetjmp(env,1))
    exit(set);
  set = 0;
  siglongjmp(env, 1);
  exit(1);
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
    echo "POSIX sigsetjmp found." >&4
    val="$define"
  else
    $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
    val="$undef"
  fi
else
  echo "sigsetjmp not found."
  >&4
  val="$undef"
fi
;;

```

```

*) val="$d_sigsetjmp"
case "$d_sigsetjmp" in
$define) echo "POSIX sigsetjmp found." >&4;;
$undef) echo "sigsetjmp not found." >&4;;
esac
;;
esac
set d_sigsetjmp
eval $setvar
$rm -f set.c set

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sigsetjmp.U

```

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```

?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 16:20:09 ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25 14:14:06 ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:06:31 ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
\
d_fd_set d_select d_socket i_systime i_sysselect extern_C
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select. Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise. This is only useful if you
?S: have select(), naturally.
?S:

```

?C:Select\_fd\_set\_t:

?C: This symbol holds the type used for the 2nd, 3rd, and 4th

?C: arguments to select. Usually, this is 'fd\_set \*', if HAS\_FD\_SET

?C: is defined, and 'int \*' otherwise. This is only useful if you

?C: have select(), of course.

?C:.

?H:#define Select\_fd\_set\_t \$selecttype /\*\*/

?H:.

?T:xxx nfd tmo try hdrs val

: check for type of arguments to select.

case "\$selecttype" in

") case "\$d\_select" in

\$define)

echo " "

\$cat <<EOM

Checking to see what type of arguments are accepted by select().

EOM

hdrs="\$define sys/types.h

\$i\_systime sys/time.h

\$i\_sysselect sys/select.h

\$d\_socket sys/socket.h"

: The first arg can be int, unsigned,

or size\_t

: The last arg may or may not be 'const'

val="

: void pointer has been seen but using that

: breaks the selectminbits test

for xxx in 'fd\_set \*' 'int \*'; do

for nfd in 'int' 'size\_t' 'unsigned long' 'unsigned' ; do

for tmo in 'struct timeval \*' 'const struct timeval \*'; do

case "\$val" in

") try="\$extern\_C select \_((\$nfd, \$xxx, \$xxx, \$xxx, \$tmo));"

if ./protochk "\$try" \$hdrs; then

echo "Your system accepts \$xxx."

val="\$xxx"

fi

::

esac

done

done

done

?X: In the unlikely event that none of those worked, prompt the user.

case "\$val" in

") rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'

case "\$d\_fd\_set" in

\$define) dflt="fd\_set \*" ;;

\*) dflt="int \*" ;;

esac



```

./myread
val=$ans
;;
esac
selecttype="$sval"
;;
*) : no select, so pick a harmless default
selecttype='int *'
;;
esac
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/selecttype.U
```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_safemcpy.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 15:41:12 ram

?RCS: patch61: improved overlapping copy check

?RCS: patch61: comfort them if they have memmove

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.4 1995/07/25 13:58:46 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

?RCS:

?RCS: Revision 3.0.1.3 1995/03/21 08:47:26 ram

?RCS: patch52: swapped two first arguments of memmove() calls

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:15:10

ram

?RCS: patch36: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:53:12 ram

?RCS: patch23: ensure string is not optimized in read-only memory (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:58 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_safemcpy: cat d\_memcpy +cc +optimize +ccflags +libs +ldflags rm \  
d\_memmove i\_memory i\_stdlib i\_string i\_unistd Oldconfig Setvar

?MAKE: -pick add \$@ %<

?S:d\_safemcpy:

?S: This variable conditionally defines the HAS\_SAFE\_MEMCPY symbol if

?S: the memcpy() routine can do overlapping copies.

?S:.

?C:HAS\_SAFE\_MEMCPY (SAFE\_MEMCPY):

?C: This symbol, if defined, indicates that the memcpy routine is available

?C: to copy potentially overlapping memory blocks. Otherwise you should

?C: probably use memmove() or memcpy(). If neither is defined, roll your

?C: own version.

?C:.

?H:#\$d\_safemcpy HAS\_SAFE\_MEMCPY /\*\*/  
?H:.

?F:!safemcpy

?LINT: set d\_safemcpy

: can memcpy handle overlapping blocks?

?X:

assume the worst

val="\$undef"

case "\$d\_memcpy" in

"\$define")

echo " "

echo "Checking to see if your memcpy() can do overlapping copies..." >&4

\$cat >foo.c <<EOCP

#\$i\_memory I\_MEMORY

#\$i\_stdlib I\_STDLIB

#\$i\_string I\_STRING

#\$i\_unistd I\_UNISTD

EOCP

\$cat >>foo.c <<'EOCP'

#include <stdio.h>

#ifdef I\_MEMORY

# include <memory.h>

#endif

#ifdef I\_STDLIB

# include <stdlib.h>

#endif

#ifdef I\_STRING

# include <string.h>

#else

# include <strings.h>

#endif

#ifdef I\_UNISTD

# include <unistd.h> /\* Needed for NetBSD \*/

```

#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
   try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxy0123456789", 36);

for (align = 7; align >= 0; align--) {
for (len = 36; len; len--) {
b = buf+align;
memcpy(b, abc, len);
for (off = 1; off <= len; off++) {
memcpy(b+off, b, len);
memcpy(b, b+off, len);
if (memcmp(b, abc, len))
exit(1);
}
}
}
exit(0);
}
EOCP
if
$cc $optimize $ccflags $ldflags \
-o safemcpy foo.c $libs >/dev/null 2>&1; then
if ./safemcpy 2>/dev/null; then
echo "Yes, it can."
val="$define"
else
echo "It can't, sorry."
case "$d_memmove" in
"$define") echo "But that's Ok since you have memmove()." ;;
esac
fi
else
echo "(I can't compile the test program, so we'll assume not...)"
case "$d_memmove" in
"$define") echo "But that's Ok since you have memmove()." ;;
esac
fi
;;
esac

```

```
$rm -f foo.* safemcpy core
set d_safemcpy
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_safemcpy.U
```

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?RCS: \$Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp \$

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?RCS:

?RCS: \$Log: myhostname.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:15:55 ram

?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:25:43 ram

?RCS: patch36: call ./xenix explicitly instead of relying on PATH

?RCS: patch36: now uses new Tr unit to convert to/from lowercase

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 07:06:20 ram

?RCS: patch30: now a little more clever for domain name guessing

?RCS:

?RCS:

Revision 3.0 1993/08/18 12:09:18 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \

Guess Loc awk echo sort uniq +usrinc rm hostcat Tr

?MAKE: -pick add \$@ %<

?S:myhostname (hostname):

?S: This variable contains the eventual value of the MYHOSTNAME symbol,

?S: which is the name of the host the program is going to run on.

?S: The domain is not kept with hostname, but must be gotten from mydomain.

?S: The dot comes with mydomain, and need not be supplied by the program.

?S:.

?S:mydomain:

?S: This variable contains the eventual value of the MYDOMAIN symbol,

?S: which is the domain of the host the program is going to run on.

?S: The domain must be appended to myhostname to form a complete host name.

?S: The dot comes with mydomain, and need not be supplied by the program.

?S:.

?S:phostname:

?S: This variable contains the eventual value of the PHOSTNAME symbol,  
 ?S: which is a command that can be fed to popen()  
 to get the host name.

?S: The program should probably not presume that the domain is or isn't  
 ?S: there already.

?S:.

?C:MYHOSTNAME (HOSTNAME):

?C: This symbol contains name of the host the program is going to run on.  
 ?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.  
 ?C: The dot comes with MYDOMAIN, and need not be supplied by the program.  
 ?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN  
 ?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.

?C:.

?C:MYDOMAIN:

?C: This symbol contains the domain of the host the program is going to  
 ?C: run on. The domain must be appended to HOSTNAME to form a complete  
 ?C: host name. The dot comes with MYDOMAIN, and need not be supplied by  
 ?C: the program. If the host name is derived from PHOSTNAME, the domain  
 ?C: may or may not already be there, and the program should check.

?C:.

```
?H:#define MYHOSTNAME "$myhostname" /**/
?H:#define MYDOMAIN "$mydomain" /**/
?H:.
```

?LINT:extern osname

?T:cont

```
i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
echo 'Maybe "hostname" will work...'
if tans=`sh -c hostname 2>&1` ; then
myhostname=$tans
phostname=hostname
cont="
fi
;;
*) cont="";;
esac
if $test "$cont"; then
if ./xenix; then
echo 'Oh, dear. Maybe "/etc/systemid" is the key...'
if tans=`cat /etc/systemid 2>&1` ; then
myhostname=$tans
phostname='cat /etc/systemid'
```

```

    echo "Whadyaknow. Xenix always was a bit strange..."
    cont=""
fi
elif $test -r /etc/systemid; then
    echo "(What is a non-Xenix system doing with /etc/systemid?)"
fi
fi
if $test "$cont"; then
    echo 'No, maybe "uuname -l" will work...'
    if tans=`sh -c 'uuname -l 2>&1` ; then
        myhostname=$tans
        phostname='uuname -l'
    else
        echo 'Strange. Maybe "uname -n" will work...'
        if tans=`sh -c 'uname -n 2>&1` ; then
            myhostname=$tans
            phostname='uname -n'
        else
            echo 'Oh well, maybe I can mine it out of whoami.h...'
            if
tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
                myhostname=`echo "$tans" | $sed 's/^\.*(.*?)\^1/^`
                phostname="sed -n -e ""'/sysname/s/^\.*(.*?)\^1/{"" -e p -e q -e }' <$usrinc/whoami.h"
            else
                case "$myhostname" in
                    *) echo "Does this machine have an identity crisis or something?"
                        phostname="";;
                    *)
                        echo "Well, you said $myhostname before..."
                        phostname='echo $myhostname';;
                esac
            fi
        fi
    fi
    case "$myhostname" in
        *) myhostname=noname ;;
    esac
    : you do not want to know about this
    set $myhostname
    myhostname=$1

: verify guess
if $test "$myhostname" ; then
    dflt=y
    rp='Your host name appears to be "$myhostname"." Right?'
    ./myread
    case "$ans" in

```

```

y*) ;;
*) myhostname=";;
esac
fi

```

```

: bad guess or no guess
while $test "X$myhostname" = X ; do
dflt="
rp="Please type the (one word) name of your host:"
./myread
myhostname="$ans"
done

```

```

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
echo
"(Normalizing case in your host name)"
myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
;;
esac

```

?X: Do not ask for domain name if this is not used later on. In that

?X: case, the hostname may keep its domain name, but it doesn't matter.

@if MYDOMAIN || mydomain

```

case "$myhostname" in
*.*)
dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
myhostname=`expr "X$myhostname" : "X\([^.*]\)"`
echo "(Trimming domain name from host name--host name is now $myhostname)"
;;
*) case "$mydomain" in
)

```

?X:

?X: There is currently no way to say we do not want hostcat if mydomain is not

?X: used. One way to achieve that would be to put that code in a mydomain.U

?X: unit. However, we want to stick the sanity checks right after the domain

?X: name computation, or if none is done, right after the hostname computation.

?X:

```
{
```

?X: If we use NIS, try ypmatch.

```

test "X$hostcat" = "Xypcat hosts" &&
ypmatch "$myhostname" hosts 2>/dev/null \
$sed -e 's/[ ]*#.*//; s/$/ /' > hosts
&& \
$test -s hosts
} || {

```

?X: Extract only the relevant hosts, reducing file size,

?X: remove comments, insert trailing space for later use.

?X: Test to be sure we \*have\* a hostcat command. os390 doesn't.

```
test "X$hostcat" != "X" &&
$hostcat | $sed -n -e "s/[ ]*#.*//; s^\$/ /
/[ ]$myhostname[ . ]/p" > hosts
}
tmp_re="[ .]"
if $test -f hosts; then
$stest x`$awk "/[0-9].*[ ]$myhostname$tmp_re/ { sum++ }
END { print sum }" hosts` = x1 || tmp_re="[ ]"
dflt=`$awk "/[0-9].*[ ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\$i}" \
hosts | $sort | $uniq | \
$sed -n -e "s/$myhostname\\.([a-zA-Z0-9_])\^1/p"
case ` $echo X$dflt` in
X*\ *) echo "(Several hosts in the database matched hostname)"
dflt=.
;;
X.) echo "(You do not have fully-qualified names in the hosts database)"
;;
esac
else
echo "(I cannot locate a hosts database anywhere)"
dflt=.
fi
case "$dflt" in
.)
tans=`./loc resolv.conf X /etc /usr/etc`
if
$stest -f "$tans"; then
echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
dflt=`$sed -n -e 's// /g' \
-e 's/^search *([^\ ]*).*\^1/p' $tans \
-e 1q 2>/dev/null`
case "$dflt" in
.) dflt=`$sed -n -e 's// /g' \
-e 's/^domain *([^\ ]*).*\^1/p' $tans \
-e 1q 2>/dev/null`
;;
esac
fi
;;
esac
case "$dflt" in
.) echo "(No help from resolv.conf either -- attempting clever guess)"
dflt=`sh -c domainname 2>/dev/null`
case "$dflt" in
") dflt='.';;
```



```

.nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*/^/';
esac
;;
esac
case "$dflt$osname" in
.os390) echo "(Attempting domain name extraction from //SYS1.TCPPARMS(TCPDATA))"
dflt=`awk '/^DOMAINORIGIN/ {print $2}' "//SYS1.TCPPARMS(TCPDATA)" 2>/dev/null
;;
esac
case "$dflt" in
.) echo "(Lost all hope -- silly guess then)"
dflt='.nonet'
;;
esac
$rm -f hosts
;;
*)
dflt="$mydomain";
esac;;
esac
echo " "
rp="What is your domain name?"
./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".${ans}";
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
echo "(Normalizing case in your domain name)"
mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
case ` $phostname | ./tr '[A-Z]' '[a-z]'` in
$myhostname$mydomain|$myhostname) ;;
*)
case "$phostname" in

```

```

sed*)
  echo "(That doesn't agree with your whoami.h file, by the way.)"
;;
*)
  echo "(That doesn't agree with your $phostname command, by the way.)"
;;
esac
;;
esac
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/myhostname.U
```

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?RCS:

?MAKE:d\_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_clearenv:

?S: This variable conditionally defines the HAS\_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS\_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d\_clearenv HAS\_CLEARENV /\*\*/

?H:.

?LINT:set d\_clearenv

: see if clearenv exists

set clearenv d\_clearenv

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_clearenv.U
```

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?RCS: \$Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp \$

?RCS:

```

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?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1 1995/07/25 14:16:14 ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:48 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which
indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
/dev/null >/dev/null 2>&1
then
echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
$cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
int s = socket(AF_INET, SOCK_STREAM, 0);

```

```
if (s == -1)
  exit(1);
if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
exit(0);
}
```

EOP

```
if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
  $socketlib >/dev/null 2>&1; then
  ./socket >/dev/null 2>&1
```

case

\$? in

0) echo "Yes, it does!"

val="\$define";;

1) \$cat <<EOM

(Something went wrong -- Assuming SO\_KEEPALIVE is broken)

EOM

val="\$undef";;

2) echo "No, it doesn't. Don't trust your manuals!!"

val="\$undef";;

esac

else

cat <<EOM

(I can't compile the test program -- Assuming SO\_KEEPALIVE is broken)

EOM

val="\$undef"

fi

else

echo "Strange!! You have BSD 4.2 sockets but no SO\_KEEPALIVE option."

val="\$undef"

fi;;

\*) cat <<EOM

As you have an old socket interface, you can't have heard of SO\_KEEPALIVE.

EOM

val="\$undef";;

esac

set d\_keepalive

eval \$setvar

\$rm -f socket socket.c

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/sockopt.U
```

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: gidtype.U,v \$  
?RCS: Revision 3.0.1.3 1994/08/29 16:21:44 ram  
?RCS: patch32: now uses new Typedef unit to compute type information  
?RCS: patch32: removed useless usage of Setvar (for now)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/13 15:21:07 ram  
?RCS: patch27: added lint hint  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 15:01:51 ram  
?RCS: patch23: protected gidtype setting via setvar (ADO)  
?RCS: patch23: made Gid\_t comment more explicit (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:11 ram  
?RCS:  
Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:gidtype: Myread Typedef Findhdr  
?MAKE: -pick add \$@ %<  
?S:gidtype:  
?S: This variable defines Gid\_t to be something like gid\_t, int,  
?S: ushort, or whatever type is used to declare the return type  
?S: of getgid(). Typically, it is the type of group ids in the kernel.  
?S:.  
?C:Gid\_t (GIDTYPE):  
?C: This symbol holds the return type of getgid() and the type of  
?C: argument to setrgid() and related functions. Typically,  
?C: it is the type of group ids in the kernel. It can be int, ushort,  
?C: uid\_t, etc... It may be necessary to include <sys/types.h> to get  
?C: any typedef'ed information.  
?C:.  
?H:#define Gid\_t \$gidtype /\* Type for getgid(), etc... \*/  
?H:.  
?T:xxx  
: see what type gids are declared as in the kernel  
set gid\_t gidtype xxx stdio.h sys/types.h  
eval \$typedef  
case "\$gidtype" in  
xxx)  
xxx=`./findhdr sys/user.h`  
set `grep 'groups\[NGROUPS\];' "\$xxx" 2>/dev/null` unsigned short  
case \$1 in

```

unsigned) dflt="$1 $2" ;;
*) dflt="$1"
;;
esac
;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
./myread
gidtype="$ans"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/gidtype.U

```

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?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_isascii.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 16:13:39 ram

?RCS: patch36: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:09:32 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_isascii: cc cat ccflags ldflags rm libs Setvar

?MAKE: -pick add \$@ %<

?S:d\_isascii:

?S: This variable conditionally defines the HAS\_ISASCII constant,

?S: which indicates to the C program that isascii()

is available.

?S:.

?C:HAS\_ISASCII:

?C: This manifest constant lets the C program know that isascii

?C: is available.

?C:.

?H:#\$d\_isascii HAS\_ISASCII /\*\*/

```

?H:
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
int c = 'A';
if (isascii(c))
exit(0);
else
exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
echo "isascii() found." >&4
val="$define"
else
echo "isascii() NOT found." >&4
val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_isascii.U

```

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?RCS:

?RCS: \$Log: d\_wifstat.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:47:43 ram

?RCS: patch61: added a ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.2 1995/07/25 14:09:10 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

```

?RCS:
?RCS: Revision 3.0.1.1 1995/03/21 08:47:46 ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
    use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
echo
"Let's see whether you can use the WIFEXITED(status) macro and its"
case "$d_uwait" in
"$define") type='union wait';
*) type='int';
esac
echo "friends with status declared as '$type status'..."
$cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
$type status;
int e = 0;

```



```

#ifdef WIFEXITED
if (WIFEXITED(status))
    printf("\n");
exit(0);
#else
exit(2);
#endif
}
EOCP
d_wifstat="$undef"
if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
if ./foo >/dev/null; then
    echo "Great! Looks like we can use the WIFxxx macros." >&4
    d_wifstat="$define"
else
    echo "You don't seem to have WIFxxx macros, but that's ok." >&4
fi
else
    echo "Apparently you can't use WIFxxx macros properly." >&4
fi
$rm -f foo.* foo core
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_wifstat.U
```

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```

?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:28 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is

```

```
?S: available to get file status.
?S:.
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
?H:.
?LINT:set d_stat
: see if stat exists
set
stat d_stat
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_stat.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
?H:#$d_strtoll HAS_STRTOLL /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc

case "$d_longlong-$d_strtoll" in
"$define-$define")
$cat <<EOM
Checking whether your strtoll() works okay...
```

```

EOM
$cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
__strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
    long long gll;
    errno = 0;
    gll = strtoll(s, 0, 10);
    if (!(gll == ell) && (errno == een))
        bad++;
}
int main() {
    check(" 1",          1LL, 0);
    check(" 0",          0LL, 0);
    check("-1",         -1LL, 0);
    check("-9223372036854775808", -9223372036854775808LL, 0);
    check("-9223372036854775808", -9223372036854775808LL, 0);
    check(" 9223372036854775807", 9223372036854775807LL, 0);
    check("-9223372036854775808", -9223372036854775808LL, 0);
    check(" 9223372036854775808", 9223372036854775807LL, ERANGE);
    check("-9223372036854775809", -9223372036854775808LL, ERANGE);
    if (!bad)
        printf("ok\n");
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
        ok) echo "Your strtoll() seems to be working okay." ;;
        *) cat <<EOM >&4
Your strtoll() doesn't seem
to be working okay.
EOM
        d_strtoll="$undef"
        ;;
    esac
else
    echo "(I can't seem to compile the test program--assuming it doesn't)"

```

```
d_strtoll="$undef"  
fi  
;;  
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strtoll.U
```

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: uidtype.U,v \$

?RCS: Revision 3.0.1.3 1994/08/29 16:33:25 ram

?RCS: patch32: now uses new Typedef unit to compute type information

?RCS:

?RCS: Revision 3.0.1.2 1994/06/20 07:09:36 ram

?RCS: patch30: comment for uidtype referred to the obsoleted symbol

?RCS:

?RCS: Revision 3.0.1.1 1994/05/13 15:28:27 ram

?RCS: patch27: made conform to its gidtype.U companion

?RCS: patch27: question now explicitly mentions getuid()

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:56 ram

?RCS: Baseline for dist

3.0 netwide release.

?RCS:

?MAKE:uidtype: Myread Typedef Findhdr

?MAKE: -pick add \$@ %<

?S:uidtype:

?S: This variable defines Uid\_t to be something like uid\_t, int,

?S: ushort, or whatever type is used to declare user ids in the kernel.

?S:.

?C:Uid\_t (UIDTYPE):

?C: This symbol holds the type used to declare user ids in the kernel.

?C: It can be int, ushort, uid\_t, etc... It may be necessary to include

?C: <sys/types.h> to get any typedef'ed information.

?C:.

?H:#define Uid\_t \$uidtype /\* UID type \*/

?H:.

```

?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
xxx=`./findhdr sys/user.h`
set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
case $1 in
unsigned) dflt="$1 $2" ;;
*) dflt="$1" ;;
esac
;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
./myread
uidtype="$ans"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/uidtype.U

```

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```

?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1 1993/09/13 16:02:35 ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:33 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of

```

memory.

?S:.

?C:HAS\_MEMCMP (MEMCMP):

?C: This symbol, if defined, indicates that the memcmp routine is available

?C: to compare blocks of memory.

?C:.

?H:#\$d\_memcmp HAS\_MEMCMP /\*\*/

?H:.

?LINT:set d\_memcmp

: see if memcmp exists

set memcmp d\_memcmp

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_memcmp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_wctomb.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:20:43 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_wctomb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_wctomb:

?S: This variable conditionally defines the HAS\_WCTOMB symbol, which

?S: indicates to the C program that the wctomb() routine is available

?S: to convert a wide character to a multibyte.

?S:.

?C:HAS\_WCTOMB (WCTOMB):

?C: This

symbol, if defined, indicates that the wctomb routine is available

?C: to convert a wide character to a multibyte.

?C:.

?H:#\$d\_wctomb HAS\_WCTOMB /\*\*/

?H:.

```
?LINT:set d_wctomb
: see if wctomb exists
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_wctomb.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:sysroot: Head
```

```
?MAKE: -pick add $@ %<
```

```
?S:sysroot:
```

```
?S: This variable is empty unless supplied by the Configure user.
```

```
?S: It can contain a path to an alternative root directory, under which
```

```
?S: headers and libraries for the compilation target can be found. This
```

```
?S: is generally used when cross-compiling using a gcc-like compiler.
```

```
?S:.
```

```
?LINT:extern cc
```

```
?LINT:extern cppflags
```

```
?LINT:change cppflags
```

```
?LINT:extern ccflags
```

```
?LINT:change ccflags
```

```
?LINT:extern ldflags
```

```
?LINT:change ldflags
```

```
?LINT:extern cccdlflags
```

```
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
```

```
?T:var xxx path _sysroot
```

```
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
```

```
: This is primarily meant for cross-compile environments, and
```

```
may fail to be useful in other cases
```

```
if test "X$sysroot" = X; then
```

```
    sysroot=""
```

```
else
```

```
    case "$cc" in
```

```
*gcc*|*g++*)
```

```
    echo "Using $sysroot to find your headers and libraries, adding to ccflags"
```

```
    # _sysroot is used in places where we need --sysroot=foo
```

```
    # but using the rest of the flags could cause issues.
```

```
    _sysroot="--sysroot=$sysroot";
```

```
    case "$ccflags" in
```

```
*sysroot*) ;;
```

```
'undef'*)
```

```

ccflags="$ccflags $_sysroot"
    esac
    case "$ldflags" in
*sysroot*) ;;
'undef'|*)
ldflags="$ldflags $_sysroot"
    esac
    case "$cppflags" in
*sysroot*) ;;
'undef'|*)
cppflags="$cppflags $_sysroot"
    esac
    # lddflags updated below in lddflags section;
    # same with cccldflags
    ;;
esac

```

```

# Adjust some defaults to also use $sysroot
for var in xlibpth loclibpth locincpth glibpth; do
eval xxx=\$$var
eval $var="
for path in $xxx; do
    eval $var="\$$var $sysroot$path\"
done
done

```

fi

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/Sysroot.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Whoa.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram

?RCS: patch61: whoa script now starts with leading "startsh"

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram



```

?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:19 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
    unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $was was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "  The $hint value for \$var on this machine was \"\$was\"!" >&4
rp="  Keep the $hint value?"
./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOOSC

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Whoa.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```

```

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
  symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
eval $inlibc
case "$d_ttyname_r" in
"$define")
  hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
  case "$d_ttyname_r_proto:$usethreads" in
  ":define") d_ttyname_r_proto=define
    set d_ttyname_r_proto ttyname_r $hdrs
    eval $hasproto ;;
  *) ;;
  esac
  case "$d_ttyname_r_proto" in
  define)
    case "$ttyname_r_proto" in
    "|0) try='int ttyname_r(int, char*, size_t);'
./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;

```

```

esac
case "$ttyname_r_proto" in
"|0) try='int ttyname_r(int, char*, int);'
./prochck "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
esac
case "$ttyname_r_proto"
in
"|0) try='char* ttyname_r(int, char*, int);'
./prochck "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
esac
case "$ttyname_r_proto" in
"|0) d_ttyname_r=undef
ttyname_r_proto=0
echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
*) case "$ttyname_r_proto" in
REENTRANT_PROTO*) ;;
*) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "ttyname_r has no prototype, not using it." >&4 ;;
esac
d_ttyname_r=undef
ttyname_r_proto=0
;;
esac
;;
*) ttyname_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_ttyname\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc

?MAKE: -pick add \$@ %<

?Y:TOP

```

?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*)
xversion=`awk
'/define[ ]+PERL_VERSION/ {print $3}' $src/patchlevel.h`
case "$xversion" in
[68]) dflt='y' ;;
*) dflt='n' ;;
esac
;;
*) dflt='n';;
esac
cat <<EOM

```

Perl can be built to use 'fast stdio', which means using the stdio library but also directly manipulating the stdio buffers to enable faster I/O. Using stdio is better for backward compatibility (especially for Perl extensions), but on the other hand since Perl 5.8 the 'perlio' interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '\$dflt'.

```

EOM
rp="Use the "fast stdio" if available?"
./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef" ;;
esac
set usefaststdio
eval $setvar

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/usefaststdio.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_niin.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_niin.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit looks wether <netinet/in.h> is available or not

?X:

?MAKE:i\_niin i\_sysin: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_niin:

?S: This variable conditionally defines I\_NETINET\_IN, which indicates

?S: to the C program that it should include <netinet/in.h>. Otherwise,

?S: you may try <sys/in.h>.

?S:.

?S:i\_sysin:

?S: This variable conditionally

defines I\_SYS\_IN, which indicates

?S: to the C program that it should include <sys/in.h> instead of

?S: <netinet/in.h>.

?S:.

?C:I\_NETINET\_IN:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.

?C:.

?C:I\_SYS\_IN (I\_SYSIN):

?C: This symbol, if defined, indicates to the C program that it should

?C: include <sys/in.h> instead of <netinet/in.h>.

?C:.

?H:#\$i\_niin I\_NETINET\_IN /\*\*/

?H:#\$i\_sysin I\_SYS\_IN /\*\*/

?H:.

?LINT:set i\_niin i\_sysin

: see if this is a netinet/in.h or sys/in.h system

set netinet/in.h i\_niin sys/in.h i\_sysin

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_niin.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_normsig.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_normsig.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:37:03 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:14:48 ram

?RCS: patch36: call ./bsd explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:44 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_normsig jobslib: test Setvar Guess \_a

?MAKE: -pick add \$@ %<

?S:d\_normsig:

?S: This variable conditionally

defines the NORMSIG symbol, which

?S: indicates to the C program that the normal signal handling routines

?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).

?S:.

?S:jobslib:

?S: This variable holds the argument to be passed to the loader to include

?S: the strange signal handling routines from 4.1bsd. On systems that

?S: have NORMSIG defined this variable is null.

?S:.

?C:NORMSIG:

?C: This symbol, if defined, indicates that normal signal handling routines

?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).

?C:.

?H:#\$d\_normsig NORMSIG /\*\*/

?H:.

?LINT:set d\_normsig

: see if we need -ljobs and if we have sigset, etc.

```

echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
echo "Jobs library found." >&4
val="$sundef"
jobslib='-ljobs'
else
if ./bsd; then
echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
else
echo "No jobs library found. (That's okay, we all have our faults.)" >&4
fi
val="$define"
jobslib=""
fi
set
d_normsig
eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d_normsig.U
```

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>

?RCS: Merged into dist by Andy Dougherty July 13, 1998

?RCS:

?MAKE:trnl: Nothing

?MAKE: -pick add \$@ %<

?S:trnl:

?S: This variable contains the value to be passed to the tr(1)

?S: command to transliterate a newline. Typical values are

?S: '\012' and '\n'. This is needed for EBCDIC systems where

?S: newline is not necessarily '\012'.

?S:.

?T: DJGPP

: Find the appropriate value for a newline for tr

```

?X: We can't
    use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command. I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it. --AD 6/14/98
if test -n "$DJGPP"; then
    trnl='\012'
fi
if test X"$trnl" = X; then
    case "`echo foo | tr '\n' x 2>/dev/null`" in
    foox) trnl='\n' ;;
    esac
fi
if test X"$trnl" = X; then
    case "`echo foo | tr '\012' x 2>/dev/null`" in
    foox) trnl='\012' ;;
    esac
fi
if test X"$trnl" = X; then
    case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
    fooxy) trnl='\n\r' ;;
    esac
fi
if test X"$trnl" = X; then
    cat <<EOM >&2

```

\$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

```

EOM
exit 1
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/trnl.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
    usethreads i_locale extern_C
?MAKE: -pick add $@ %<

```



?S:d\_setlocale\_r:  
 ?S: This variable conditionally defines the HAS\_SETLOCALE\_R symbol,  
 ?S: which indicates to the C program that the setlocale\_r()  
 ?S: routine is available.  
 ?S:.  
 ?S:setlocale\_r\_proto:  
 ?S: This variable encodes the prototype of setlocale\_r.  
 ?S: It is zero if d\_setlocale\_r is undef, and one of the  
 ?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_setlocale\_r  
 ?S: is defined.  
 ?S:.  
 ?C:HAS\_SETLOCALE\_R:  
 ?C: This symbol, if defined, indicates that the setlocale\_r routine  
 ?C: is  
 available to setlocale re-entrantly.  
 ?C:.  
 ?C:SETLOCALE\_R\_PROTO:  
 ?C: This symbol encodes the prototype of setlocale\_r.  
 ?C: It is zero if d\_setlocale\_r is undef, and one of the  
 ?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_setlocale\_r  
 ?C: is defined.  
 ?C:.  
 ?H:#\$d\_setlocale\_r HAS\_SETLOCALE\_R /\*\*/  
 ?H:#define SETLOCALE\_R\_PROTO \$setlocale\_r\_proto /\*\*/  
 ?H:.  
 ?T:try hdrs d\_setlocale\_r\_proto  
 : see if setlocale\_r exists  
 set setlocale\_r d\_setlocale\_r  
 eval \$inlibc  
 case "\$d\_setlocale\_r" in  
 "\$define")  
 hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_locale locale.h"  
 case "\$d\_setlocale\_r\_proto:\$usetheads" in  
 ":define") d\_setlocale\_r\_proto=define  
 set d\_setlocale\_r\_proto setlocale\_r \$hdrs  
 eval \$hasproto ;;  
 \*) ;;  
 esac  
 case "\$d\_setlocale\_r\_proto" in  
 define)  
 case "\$setlocale\_r\_proto" in  
 "|0) try='int setlocale\_r(int, const char\*, char\*, int);'  
 ./protochk "\$extern\_C \$try" \$hdrs && setlocale\_r\_proto=I\_ICBI ;;  
 esac  
 case "\$setlocale\_r\_proto" in  
 "|0) d\_setlocale\_r=undef  
 setlocale\_r\_proto=0  
 echo

```

"Disabling setlocale_r, cannot determine prototype." >&4 ;;
*) case "$setlocale_r_proto" in
REENTRANT_PROTO*) ;;
*) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "setlocale_r has no prototype, not using it." >&4 ;;
esac
d_setlocale_r=undef
setlocale_r_proto=0
;;
esac
;;
*) setlocale_r_proto=0
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_setlocale_r.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:10 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the

```

```
setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
?C:.
?H:#$d_setpgrp2 HAS_SETPGRP2 /**/
?H:.
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_setpgrp2.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:28 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE:-pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT /**/
?H:.
?LINT:set
d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_1stat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ualarm: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ualarm:

?S: This variable conditionally defines the HAS\_UALARM symbol, which

?S: indicates to the C program that the ualarm() routine is available.

?S:.

?C:HAS\_UALARM:

?C: This symbol, if defined, indicates that the ualarm routine is

?C: available to do alarms with microsecond granularity.

?C:.

?H:#\$d\_ualarm HAS\_UALARM /\*\*/

?H:.

?LINT:set d\_ualarm

: see if ualarm exists

set ualarm d\_ualarm

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_ualarm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_hasmntopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hasmntopt:

?S: This variable conditionally defines the HAS\_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS\_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d\_hasmntopt HAS\_HASMNTOPT /\*\*/

?H:.

?LINT:set d\_hasmntopt

: see if hasmntopt exists

set hasmntopt d\_hasmntopt

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_hasmntopt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_dup2.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_dup2.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:56 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_dup2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_dup2:

?S: This variable conditionally defines HAS\_DUP2 if dup2() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS\_DUP2 (DUP2):

?C: This symbol, if defined, indicates that the dup2 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d\_dup2 HAS\_DUP2 /\*\*/

?H:.

?LINT:set d\_dup2

:

see if dup2 exists

set dup2 d\_dup2

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_dup2.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Loc.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:04:16 ram

?RCS: patch61: allow users to specify paths on the command line

?RCS: patch61: will now substitute cp for ln if not supported

?RCS:

?RCS: Revision 3.0.1.9 1995/09/25 09:11:24 ram

?RCS: patch59: commented the purpose of the #un-def directive

?RCS: patch59: abort Configure run when mandatory command is missing

?RCS:

?RCS: Revision 3.0.1.8 1995/07/25 13:40:40 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.7

1995/01/11 15:13:37 ram

?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI

?RCS: patch45: added path lookup for the 'comm' program

?RCS:

?RCS: Revision 3.0.1.6 1994/10/29 15:56:14 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: be careful and guard against wildcard searching (ADO)

?RCS:

?RCS: Revision 3.0.1.5 1994/06/20 06:54:55 ram

?RCS: patch30: now locates find

?RCS:

?RCS: Revision 3.0.1.4 1994/05/13 15:18:15 ram

?RCS: patch27: added byacc to the trylist (ADO)

?RCS: patch27: lint lines reformatted (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/01/24 14:01:44 ram

?RCS: patch16: added metalint hint on changed PATH variable

?RCS:

?RCS: Revision 3.0.1.2 1993/12/15 08:16:52 ram

?RCS: patch15: now set \_test variable when test is built-in

?RCS: patch15: fixed rare cases where echo is not needed

```

?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 15:47:13 ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
3.0 1993/08/18 12:05:05 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is. It then uses loc to
?X: determine the location of commonly used programs. It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
shar sleep smail sort submit tail tar tbl tee test touch tr troff
\
uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
shar sleep smail sort submit tail tar tbl tee test touch tr troff \
uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOESC >loc
$startsh
case \ $# in
0) exit 1;;
esac

```

```

thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
case "\$thing" in
.)
if test -d \$dir/\$thing; then
echo \$dir
exit 0
fi
;;
*)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files. Choose the last one.
This happens when searching for shared
?X: libraries with version numbers. How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission. A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
for thisthing in \$dir/\$thing; do
: just loop through to pick last item
done
if test -f \$thisthing; then
echo \$thisthing
exit 0
elif test -f \$thisthing$_exe; then
echo \$thisthing
exit 0
elif test -f \$dir/\$thing.exe; then
if test -n "$DJGPP"; then
echo \$dir/\$thing.exe
else
: on Eunice apparently
echo \$dir/\$thing
fi
fi
exit 0
fi
;;
esac
done
echo \$dflt
exit 1
EOSC
chmod +x loc
$eunicefix loc

```



loclist="

- ?awk:awk
- ?cat:cat
- ?chgrp:chgrp
- ?chmod:chmod
- ?chown:chown
- ?comm:comm
- ?cp:cp
- ?echo:echo
- ?expr:expr
- ?find:find
- ?grep:grep
- ?ls:ls
- ?mkdir:mkdir
- ?mv:mv
- ?rm:rm
- ?sed:sed
- ?sleep:sleep
- ?sort:sort
- ?tail:tail
- ?touch:touch
- ?tr:tr
- ?uniq:uniq

"

trylist="

- ?Mcc:Mcc
- ?ar:ar
- ?bash:bash
- ?bison:bison
- ?byacc:byacc
- ?compress:compress
- ?cpio:cpio
- ?cpp:cpp
- ?csh:csh
- ?date:date
- ?egrep:egrep
- ?emacs:emacs
- ?flex:flex
- ?gmake:gmake
- ?gzip:gzip
- ?inews:inews
- ?ksh:ksh
- ?less:less
- ?line:line
- ?lint:lint
- ?ln:ln
- ?lp:lp
- ?lpr:lpr

```

?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uname:uname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set
awk ar bash bison byacc cat chgrp chmod chown \
comm compress cp cpio cpp csh date echo emacs expr find flex \
gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
shar sleep smail sort submit tail tar tbl tee touch tr troff \
uname uniq uname vi zcat zip
pth=`echo $PATH | sed
-e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
eval xxx=\$$file
case "$xxx" in
/*|?:[\\/]*)
if test -f "$xxx"; then

```

```

: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\V]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry
if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\V]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in

```

```

/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$grep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a
public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.

```

```

echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking
compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible. In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c="";;
esac
cat <<FOO

```

They are not compatible! You are probably running ksh on a non-USG system.

I'll have to use \$echo instead of the builtin, since Bourne shell doesn't have echo built in and we may have to run some Bourne shell scripts. That

means I'll have to use '\$n\$c' to suppress newlines now. Life is ridiculous.

FOO

```
$echo $n "The star should be here-->$c"
```

```
$echo "*"
```

```
fi
```

```
$rm -f foo1 foo2
```

```
::
```

```
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Loc.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_readdir.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/05/06 14:46:37 ram
```

```
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:06:52 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?X: Force checking for <dirent.h> inclusion
```

```
?X:INC: i_dirent
```

```
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_readdir:
```

```
?S: This variable conditionally defines HAS_READDIR if readdir()
```

```
is
```

```
?S: available to read directory entries.
```

```
?S:.
```

```
?C:HAS_READDIR (READDIR):
```

```
?C: This symbol, if defined, indicates that the readdir routine is
```

```
?C: available to read directory entries. You may have to include
```

```
?C: <dirent.h>. See I_DIRENT.
```

```
?C:.
```

```
?H:#$d_readdir HAS_READDIR /**/
```

```
?H:.
```

?S:d\_seekdir:

?S: This variable conditionally defines HAS\_SEEKDIR if seekdir() is

?S: available.

?S:.

?C:HAS\_SEEKDIR:

?C: This symbol, if defined, indicates that the seekdir routine is

?C: available. You may have to include <dirent.h>. See I\_DIRENT.

?C:.

?H:#\$d\_seekdir HAS\_SEEKDIR /\*\*/

?H:.

?S:d\_telldir:

?S: This variable conditionally defines HAS\_TELLDIR if telldir() is

?S: available.

?S:.

?C:HAS\_TELLDIR:

?C: This symbol, if defined, indicates that the telldir routine is

?C: available. You may have to include <dirent.h>. See I\_DIRENT.

?C:.

?H:#\$d\_telldir HAS\_TELLDIR /\*\*/

?H:.

?S:d\_rewinddir:

?S: This variable conditionally defines HAS\_REWINDDIR if rewinddir() is

?S: available.

?S:.

?C:HAS\_REWINDDIR:

?C: This

symbol, if defined, indicates that the rewinddir routine is

?C: available. You may have to include <dirent.h>. See I\_DIRENT.

?C:.

?H:#\$d\_rewinddir HAS\_REWINDDIR /\*\*/

?H:.

?LINT:set d\_readdir d\_seekdir d\_telldir d\_rewinddir

: see if readdir and friends exist

set readdir d\_readdir

eval \$inlibc

@if d\_seekdir || HAS\_SEEKDIR

set seekdir d\_seekdir

eval \$inlibc

@end

@if d\_telldir || HAS\_TELLDIR

set telldir d\_telldir

eval \$inlibc

@end

@if d\_rewinddir || HAS\_REWINDDIR

set rewinddir d\_rewinddir

eval \$inlibc

@end

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_readdir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_sysdir.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:22:30 ram

?RCS: patch32: fixed typo in I\_SYS\_DIR symbol name

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:30 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:i\_sysdir: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_sysdir:

?S: This variable conditionally defines the I\_SYS\_DIR symbol, and indicates

?S: whether a C program should include <sys/dir.h>.

?S:.

?C:I\_SYS\_DIR (I\_SYSDIR):

?C: This symbol, if

defined, indicates to the C program that it should

?C: include <sys/dir.h>.

?C:.

?H:#\$i\_sysdir I\_SYS\_DIR /\*\*/

?H:.

?LINT:set i\_sysdir

: see if this is an sysdir system

set sys/dir.h i\_sysdir

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_sysdir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi



?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_grp.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:20 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:i\_grp: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_grp:  
?S: This variable conditionally defines the I\_GRP symbol, and indicates  
?S: whether a C program should include <grp.h>.  
?S:.  
?C:I\_GRP:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <grp.h>.  
?C:.  
?H:#\$i\_grp I\_GRP /\*\*/  
?H:.  
?LINT:set i\_grp  
: see if this is an grp system  
set grp.h i\_grp  
eval \$inhdr

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_grp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:usemorebits: Setvar

?MAKE: -pick add \$@ %<

?Y:TOP

?S:usemorebits:

?S: This variable conditionally defines the USE\_MORE\_BITS symbol,

?S: and indicates that explicit 64-bit interfaces and long doubles

?S: should be used when available.

```

?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:??<:#ifndef USE_MORE_BITS
?H:??<:#$usemorebits USE_MORE_BITS /**/
?H:??<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true[[yY]*)
use64bitint="$define"
uselongdouble="$define"
usemorebits="$define"
;;
*) usemorebits="$undef"
;;
esac

```

Found

in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/usemorebits.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:31:26 ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 16:11:18 ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)

```

```

?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:07:21 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
\
i_systypes Compile Setvar rm_try run
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR /**/
?H:.
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value. The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
echo " "
echo "Checking whether closedir() returns a status..." >&4
cat > try.c <<EOM
#$i_dirent I_DIRENT /**/
#$i_sysdir I_SYS_DIR /**/

```

```

#$i_sysndir I_SYS_NDIR /**/
#$i_systypes I_SYS_TYPES /**/

#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
set try
if eval $compile_ok; then
if $run ./try > /dev/null 2>&1 ; then
echo "Yes, it does."
val="$undef"
else
echo "No, it doesn't."
val="$define"
fi
else
echo "(I can't seem to compile the test program--assuming it doesn't)"
val="$define"
fi
;;
*)
val="$undef";
;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d\_closedir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp \$

```

?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:07 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end. This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search. The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemultiplicity:
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

```

Perl

can be built so that multiple Perl interpreters can coexist  
within the same Perl executable.

EOM

```

case "$useithreads" in
$define)
cat <<EOM
This multiple interpreter support is required for interpreter-based threads.
EOM
val="$define"
;;
*) case "$usemultiplicity" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
echo " "
echo "If this doesn't make any sense to you, just accept the default '$dflt'."
rp='Build Perl for multiplicity?'

```

```
. /myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef" ;;
esac
;;
esac
set usemultiplicity
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/usemultiplicity.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this file is to supply an empty target for the private

?X: Makefile built by metaconfig to order the units.

?X:

?MAKE:Nothing: Head

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Nothing.U
```

No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
```

```
")
```

```
if test -f config.sh; then TOP=.;
```

```
elif test -f ../config.sh; then TOP=..;
```

```
elif test -f ../../config.sh; then TOP=../../;
```

```
elif test -f ../../../config.sh; then TOP=../../../;
```

```
elif test -f ../../../../config.sh; then TOP=../../../../;
```

```
else
```

```

    echo "Can't find config.sh."; exit 1
fi
. $TOP/config.sh
;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*/)'^` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
# Original
# Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:08 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:38 ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh. Desperation time. I will feed myself to sh."; sh $0; kill \$$)

case $# in
0)
    $echo "makedir pathname filenameflag"
    exit 1
    ;;
esac

: guarantee one slash before 1st component
case $1 in
/*) ;;
*) set ./$1 $2 ;;
esac

: strip last component if it is to be a filename

```



```
case X\${2} in
X1) set `echo \${1} | sed 's:(.*)/[^/]*\$:1:\` ;;
*) set \${1} ;;
esac
```

```
: return reasonable status if nothing to be created
if test -d "\${1}" ; then
  exit 0
fi
```

```
list=""
while true ; do
  case \${1} in
  */*)
list="\${1} \${list}"
set `echo \${1} | sed 's:(.*)/:1 :\`
;;
*)
break
;;
esac
done
```

```
set \${list}
```

```
for dir do
  $mkdir \${dir} >/dev/null 2>&1
done
!GROK!THIS!
$unicefix
  mkdir
  chmod +x mkdir
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/mkdir.SH
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

```

?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4 1995/07/25 13:57:56 ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:26:25 ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 16:13:59 ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1 1993/10/16 13:48:47 ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
Revision 3.0 1993/08/18 12:06:26 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
signal(2, foo);
kill(getpid(), 2);
kill(getpid(), 2);
printf("abc\n");
}
EOCP
set try

```

```

if eval $compile_ok; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
(reported by Xavier LeVourch <xavierl@eiffel.com>)
`sh -c $run ./try >try.out 2>/dev/null`
if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
else
  echo "No, they don't."
fi
else
$echo $n "(I can't seem to compile the test program. Assuming $c"
if ./bsd; then
  echo "they do.)"
  val="$define"
else
  echo "they don't.)"
fi
fi
set d_keepsig
eval $setvar
$rm -f try*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_keepsig.U

```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nexttoward:

?S: This variable conditionally defines HAS\_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS\_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d\_nexttoward HAS\_NEXTTOWARD /\*\*/

?H:.

?LINT:set d\_nexttoward

```
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_nexttoward.U
```

No license file was found, but licenses were detected in source scan.

## Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty

Copyright (c) 1999-2011, H.Merijn Brand

All rights reserved.

These units are the ones used to build Configure and config\_h.SH in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you installed dist). It will then recurse through the 'U' subdirectory and find any additional "private" units. Private units override standard ones supplied with metaconfig.

Files in this directory:

### README

This file.

### Glossary.patch

The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

### In-all.pl

Re-generate the all/ folder

### mkglossary

A script

to regenerate Porting/Glossary. You have to manually edit the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

### mkgloss.pl

A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch.

When called on its own, redirect the output to a temporary file, and

compare that file to Porting/Glossary before applying.

#### mksample

A script to regenerate Porting/config.sh and Porting/config.H.  
It also calls mkglossary, if necessary.

#### Subdirectories:

The units and other related files have been broken up into the following directories.

#### a\_dvisory/

These are units that have to go first in the generated config\_h.SH.  
A word of explanation: Configure and config\_h.SH are generated from 'Units' (the \*.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies.

However, config\_h.SH

is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)

The a\_dvisory/ directory, then, is a place to put units that need to be early in config\_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

#### acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

#### all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config\_h.SH.

#### compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX\_SOURCE, but that's the only place it is perl-specific.)

#### dist\_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

#### ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

#### installdirs/

These are units to handle perl's installation directories and related issues.

#### modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

#### nullified/

These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

#### perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

#### perl\_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

#### protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

#### threads/

These are specific to threading perl.

#### typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for \*me\* to actively maintain it, the units just

sit here.

#### Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

- a) the "Artistic License" which comes with Perl, or
- b) the "Artistic License" which comes with dist, or
- c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License. Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided that you explicitly state where you got them from, in the source code (and, left to your courtesy, in the documentation), duplicating all the associated copyright notices and disclaimers. Besides your changes, if any, must be clearly marked as such. Parts reused that way will no longer fall under this license if, and only if, the name of your program(s) have no immediate connection with the name of the Package itself or its associated programs. You may then apply whatever restrictions you wish on the reused parts or choose to place them in the Public Domain--this will apply only within the context of your package.

In accordance with this clause, the versions of these units contained here are made available under the same terms as the rest of the units.

If you have any questions about the use of these units or about the differences between these units and the standard versions, please feel free to ask.

Andy Dougherty [doughera@lafayette.edu](mailto:doughera@lafayette.edu)  
Dept. of Physics  
Lafayette College  
Easton, PA 18042-1782

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/README
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:21:59 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
?C: to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH /**/
?H:.
?LINT:set i_math
: see if this is a math.h system
```



```
set math.h i_math
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_math.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1996, Andy Dougherty
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?X: This is used in perl.c.
```

```
?MAKE:full_sed: sed
```

```
?MAKE:-pick add $@ %<
```

```
?S:full_sed:
```

```
?S: This variable contains the full pathname to 'sed', whether or
```

```
?S: not the user has specified 'portability'. This is only used
```

```
?S: in the compiled C program, and we assume that all systems which
```

```
?S: can share this executable will have the same full pathname to
```

```
?S: 'sed.'
```

```
?S:.
```

```
?X: Yes, I know about the C symbol PORTABLE, but I think sed
```

```
?X: is
```

```
unlikely to move, and I'm too lazy to add all the
```

```
?X: #ifdef PORTABLE sections to the perl source.
```

```
?X:
```

```
?C:LOC_SED:
```

```
?C: This symbol holds the complete pathname to the sed program.
```

```
?C:.
```

```
?H:#define LOC_SED "$full_sed" /**/
```

```
?H:.
```

```
: Store the full pathname to the sed program for use in the C program
```

```
full_sed=$sed
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Loc_sed.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
```

?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_fd\_set.U,v \$  
?RCS: Revision 3.0.1.3 1997/02/28 15:33:16 ram  
?RCS: patch61: added ?F: metalint hint  
?RCS:  
?RCS: Revision 3.0.1.2 1994/06/20 06:57:23 ram  
?RCS: patch30: extended scope for fd\_set checks (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/01/24 14:06:27 ram  
?RCS: patch16: comments for HAS\_FD\_\* symbols were not consistent  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:06:02 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_fd\_set d\_fd\_macros  
d\_fds\_bits: Compile cat rm\_try Oldconfig \  
d\_socket i\_systime i\_sysselect i\_stdlib run  
?MAKE: -pick add \$@ %<  
?S:d\_fd\_set:  
?S: This variable contains the eventual value of the HAS\_FD\_SET symbol,  
?S: which indicates if your C compiler knows about the fd\_set typedef.  
?S:.  
?S:d\_fd\_macros:  
?S: This variable contains the eventual value of the HAS\_FD\_MACROS symbol,  
?S: which indicates if your C compiler knows about the macros which  
?S: manipulate an fd\_set.  
?S:.  
?S:d\_fds\_bits:  
?S: This variable contains the eventual value of the HAS\_FDS\_BITS symbol,  
?S: which indicates if your fd\_set typedef contains the fds\_bits member.  
?S: If you have an fd\_set typedef, but the dweebs who installed it did  
?S: a half-fast job and neglected to provide the macros to manipulate  
?S: an fd\_set, HAS\_FDS\_BITS will let us know how to fix the gaffe.  
?S:.  
?C:HAS\_FD\_SET:  
?C: This symbol, when defined, indicates presence of the fd\_set typedef  
?C: in <sys/types.h>  
?C:.  
?C:HAS\_FD\_MACROS:  
?C: This symbol, when defined,

```

    indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set. This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM

```

Checking to see how well your C compiler handles fd\_set and friends ...

```

EOM
?X: The FD_SET macros can be in strange places. On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>. We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselect I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
*/
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
    fd_set fds;

#ifdef TRYBITS
    if(fds.fds_bits);
#endif

```

```

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
    exit(0);
#else
    exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
    d_fds_bits="$define"
    d_fd_set="$define"
    echo "Well, your system knows about the normal fd_set typedef..." >&4
    if $run ./try; then
        echo "and you have the normal fd_set macros (just as I'd expect)." >&4
        d_fd_macros="$define"
    else
        $cat >&4 <<'EOM'
but not the normal fd_set macros! Gaaack! I'll have to cover for you.
EOM
    d_fd_macros="$undef"
    fi
else
    $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set. Checking further...
EOM
set try
if eval $compile; then
    d_fds_bits="$undef"
    d_fd_set="$define"
    echo "Well, your system has some sort of fd_set available..." >&4
    if $run ./try; then
        echo "and you have the normal
fd_set macros." >&4
        d_fd_macros="$define"
    else
        $cat <<'EOM'
but not the normal fd_set macros! Gross! More work for me...
EOM
    d_fd_macros="$undef"
    fi
else
    echo "Well, you got zip. That's OK, I can roll my own fd_set stuff." >&4
    d_fd_set="$undef"
    d_fds_bits="$undef"
    d_fd_macros="$undef"
    fi
fi

```

\$rm\_try

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d\_fd\_set.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fp\_classl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fp\_classl:

?S: This variable conditionally defines the HAS\_FP\_CLASSL symbol, which

?S: indicates to the C program that the fp\_classl() routine is available.

?S:.

?C:HAS\_FP\_CLASSL:

?C: This symbol, if defined, indicates that the fp\_classl routine is

?C: available to classify long doubles. Available for example in

?C: Digital UNIX. See for possible values HAS\_FP\_CLASS.

?C:.

?H:#\$d\_fp\_classl HAS\_FP\_CLASSL /\*\*/

?H:.

?LINT:set d\_fp\_classl

: see if fp\_classl exists

set fp\_classl d\_fp\_classl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fp\_classl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000, Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:versiononly: cat Myread Setvar Devel

```

?MAKE: -pick add $@ %<
?LINT:set versiononly
?Y:TOP
?S:versiononly:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versiononly is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
are not installed
?S: (see INSTALL for a more complete list). Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
            inc_version_list_init=0
            ;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/versiononly.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_pidcheck.U,v $
```

```
?RCS: Revision 3.0.1.1 1997/02/28 15:37:55 ram
```

```
?RCS: patch61: replaced .o with $_o all over the place
```

```
?RCS: patch61: added ?F: metalint hint
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:06:46 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_pidcheck: cat rm +cc _o
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_pidcheck:
```

```
?S: This variable conditionally defines the variable PIDCHECK
```

```
?S: which indicates that kill(pid, 0) will check for an  
active pid.
```

```
?S:.
```

```
?C:PIDCHECK:
```

```
?C: This symbol, if defined, means that the kill(pid, 0) will
```

```
?C: check for an active pid (i.e. the kernel will run all the
```

```
?C: necessary pid checks, but no signal is actually sent).
```

```
?C:.
```

```
?H:#$d_pidcheck PIDCHECK /**/
```

```
?H:.
```

```
?F:!try
```

```
: check for "kill(pid, 0)"
```

```
echo " "
```

```
case "$d_pidcheck" in
```

```
"$define")
```

```
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
```

```
::
```

```
"$undef")
```

```
echo "We both know your system does not support signal #0 for pid checks." >&4
```

```
::
```

```

*)
echo "Checking to see if kill(pid, 0) works..." >&4
$cat >try.c <<'EOCP'
int main()
{
int pid, status0, status9;

if ((pid = fork()) == 0)
{
sleep(30);
exit(1);
}
status0 = kill(pid, 0);
status9 = kill(pid, 9);
exit(status0 == status9);
}
EOCP
if $cc -o try try.c >/dev/null 2>&1 ; then
if ./try >/dev/null 2>&1 ; then
echo "Yes, it does marvels."
d_pidcheck="$sundef"
else
d_pidcheck="$sdefine"
echo "No, it doesn't."
fi
else
echo "(I was unable to compile
the test program.)"
echo "Your system does not appear to support kill(pid, 0)."

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_pidcheck.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sfio.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1996, Andy Dougherty
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```



?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_sfio.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:48:27 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:i\_sfio: Inhdr Setvar  
?MAKE: -pick add \$@ %<  
?S:i\_sfio:  
?S: This variable conditionally defines the I\_SFIO symbol,  
?S: and indicates whether a C program should include <sfio.h>.  
?S:.  
?C:I\_SFIO:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <sfio.h>.  
?C:.  
?H:#\$i\_sfio I\_SFIO /\*\*/  
?H:.  
?LINT:set  
i\_sfio  
: see if sfio.h is available  
set sfio.h i\_sfio  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_sfio.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1998, Jarkko Hietaniemi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:i\_machcth: Inhdr usethreads  
?MAKE: -pick add \$@ %<  
?S:i\_machcth:  
?S: This variable conditionally defines the I\_MACH\_CTHREADS symbol,  
?S: and indicates whether a C program should include <mach/threads.h>.  
?S:.  
?C:I\_MACH\_CTHREADS:  
?C: This symbol, if defined, indicates to the C program that it should

```
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usetthreads" = "X$define"; then
  set mach/cthreads.h i_machcthr
  eval $inhdr
else
  i_machcthr="$undef"
fi
```

Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/i_machcthr.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_socklen_t:
```

```
?S: This symbol will be defined if the C compiler supports socklen_t.
```

```
?S:.
```

```
?C:HAS_SOCKET:
```

```
?C: This symbol will defined if the C compiler supports socklen_t.
```

```
?C: Usually the <sys/socket.h> needs to be included.
```

```
?C:.
```

```
?H:#$d_socklen_t HAS_SOCKET /**/
```

```
?H:.
```

```
?LINT:set d_socklen_t
```

```
: check for socklen_t
```

```
echo " "
```

```
echo "Checking to see if you have socklen_t..." >&4
```

```
$cat >try.c <<EOCP
```

```
#include <sys/types.h>
```

```
#$d_socket
```

```
HAS_SOCKET
```

```
#ifdef HAS_SOCKET
```

```

#include <sys/socket.h>
#endif
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
  val="$define"
  echo "You have socklen_t."
else
  val="$undef"
  echo "You do not have socklen_t."
case "$sizetype" in
size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
esac
fi
$rm_try
set d_socklen_t
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_socklen_t.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_sigaction.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:44:29 ram

?RCS: patch61: created

?RCS:

?RCS:

?MAKE:d\_sigaction: Csym Compile Setvar cat rm\_try i\_stdlib

?MAKE: -pick add \$@ %<

?S:d\_sigaction:

?S: This variable conditionally defines the HAS\_SIGACTION symbol, which

?S: indicates that the Vr4 sigaction() routine is available.

?S:.

?C:HAS\_SIGACTION:

?C: This symbol, if defined, indicates that Vr4's sigaction() routine

?C: is available.

```
?C:
?H:#$d_sigaction
HAS_SIGACTION /**/
?H:
?T:val
?LINT:set d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
echo 'sigaction() found.'>&4
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc. This compile test
?X: will fail then. <doughera@lafcol.lafayette.edu>
```

```
?X:
$cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
    struct sigaction act, oact;
    act.sa_flags = 0;
    oact.sa_handler = 0;
    /* so that act and oact are used */
    exit(act.sa_flags == 0 && oact.sa_handler == 0);
}
EOP
set try
if eval $compile_ok; then
    val="$define"
else
    echo "But you don't seem to have a usable struct sigaction." >&4
    val="$undef"
fi
else
    echo 'sigaction NOT found.' >&4
    val="$undef"
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/U/compline/d\_sigaction.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:02 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
d_waitpid
: see if waitpid exists
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/dist/U/d\_waitpid.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
```

?MAKE: -pick add \$@ %<  
?S:d\_towlower:  
?S: This variable conditionally defines the HAS\_TOWLOWER symbol, which  
?S: indicates to the C program that the towlower() routine is available.  
?S:.  
?C:HAS\_TOWLOWER:  
?C: This symbol, if defined, indicates that the towlower () routine is  
?C: available to do case conversion.  
?C:.  
?H:#\$d\_towlower HAS\_TOWLOWER /\*\*/  
?H:.  
?LINT:set d\_towlower  
: see if towlower exists  
set towlower d\_towlower  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_towlower.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_gethostbyaddr\_r.U,v 0RCS:  
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
?RCS:  
?MAKE:d\_gethostbyaddr\_r gethostbyaddr\_r\_proto: Inlibc Protochk Hasproto \  
i\_systypes usethreads i\_netdb extern\_C  
?MAKE: -pick add \$@ %<  
?S:d\_gethostbyaddr\_r:  
?S: This variable conditionally defines the HAS\_GETHOSTBYADDR\_R symbol,  
?S: which indicates to the C program that the gethostbyaddr\_r()  
?S: routine is available.  
?S:.  
?S:gethostbyaddr\_r\_proto:  
?S: This variable encodes the prototype of gethostbyaddr\_r.  
?S: It is zero if d\_gethostbyaddr\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_gethostbyaddr\_r  
?S: is defined.  
?S:.  
?C:HAS\_GETHOSTBYADDR\_R:  
?C: This symbol, if defined, indicates  
that the gethostbyaddr\_r routine  
?C: is available to gethostbyaddr re-entrantly.  
?C:.

```

?C:GETHOSTBYADDR_R_PROTO:
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_gethostbyaddr_r_proto:$usethreads" in
":define") d_gethostbyaddr_r_proto=define
set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_gethostbyaddr_r_proto" in
define)
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
size_t, struct hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIIISBIE ;;
esac
case
"$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'

```

```

./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CISD ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, int, int);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
esac
case
"$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) d_gethostbyaddr_r=undef
gethostbyaddr_r_proto=0
echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
*) case "$gethostbyaddr_r_proto" in
REENTRANT_PROTO*) ;;
*) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
esac
d_gethostbyaddr_r=undef
gethostbyaddr_r_proto=0
;;
esac
;;
*) gethostbyaddr_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-



5.32.1~rc1/U/threads/d\_gethostbyaddr\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endgrent.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: d\_endgrent.U,v \$

?RCS:

?MAKE:d\_endgrent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_endgrent:

?S: This variable conditionally defines the HAS\_ENDGRENT symbol, which

?S: indicates to the C program that the endgrent() routine is available

?S: for sequential access of the group database.

?S:.

?C:HAS\_ENDGRENT:

?C: This symbol, if defined, indicates that the getgrent routine is

?C: available for finalizing sequential access of the group database.

?C:.

?H:#\$d\_endgrent HAS\_ENDGRENT /\*\*/

?H:.

?LINT:set d\_endgrent

: see if endgrent exists

set endgrent d\_endgrent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_endgrent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_getprpwnam: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getprpwnam:

?S: This variable conditionally defines HAS\_GETPRPWNAM if getprpwnam() is  
?S: available to retrieve protected (shadow) password entries by name.  
?S:.  
?C:HAS\_GETPRPWNAM:  
?C: This symbol, if defined, indicates that the getprpwnam system call is  
?C: available to retrieve protected (shadow) password entries by name.  
?C:.  
?H:#\$d\_getprpwnam HAS\_GETPRPWNAM /\*\*/  
?H:.  
?LINT:set d\_getprpwnam  
: see if getprpwnam exists  
set getprpwnam d\_getprpwnam  
eval \$inlibc

#### Found

in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_getprpwnam.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera \$  
?RCS:  
?RCS: Copyright (c) 1996-1998, Andy Dougherty  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: sitearch.U,v \$  
?RCS: Revision 3.1 1999/07/08 18:32:29 doughera  
?RCS: Updated for perl5.005\_5x  
?RCS:  
?RCS: Revision 3.0.1.1 1997/02/28 16:21:30 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:sitearch sitearchexp installsitearch d\_sitearch: cat sed Getfile \  
Oldconfig Setprefixvar Prefixit test archname sitelib  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?D:sitearch="  
?S:sitearch:  
?S: This variable contains the eventual  
value of the SITEARCH symbol,  
?S: which is the name of the private library for this package. It may  
?S: have a ~ on the front. It is up to the makefile to eventually create

?S: this directory while performing installation (with ~ substitution).

?S: The standard distribution will put nothing in this directory.

?S: After perl has been installed, users may install their own local

?S: architecture-dependent modules in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitearchexp="

?S:sitearchexp:

?S: This variable is the ~name expanded version of sitearch, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installsitearch="

?S:installsitearch:

?S: This variable is really the same as sitearchexp but may differ on

?S: those systems using AFS. For extra portability, only this variable

?S: should be used in makefiles.

?S:.

?D:d\_sitearch="

?S:d\_sitearch:

?S: This variable conditionally defines SITEARCH to hold the

pathname

?S: of architecture-dependent library files for \$package. If

?S: \$sitearch is the same as \$archlib, then this is set to undef.

?S:.

?C:SITEARCH:

?C: This symbol contains the name of the private library for this package.

?C: The library is private in the sense that it needn't be in anyone's

?C: execution path, but it should be accessible by the world. The program

?C: should be prepared to do ~ expansion.

?C: The standard distribution will put nothing in this directory.

?C: After perl has been installed, users may install their own local

?C: architecture-dependent modules in this directory with

?C: MakeMaker Makefile.PL

?C: or equivalent. See INSTALL for details.

?C:.

?C:SITEARCH\_EXP:

?C: This symbol contains the ~name expanded version of SITEARCH, to be used

?C: in programs that are not prepared to deal with ~ expansion at run-time.

?C:.

?H:#\$d\_sitearch SITEARCH "\$sitearch" /\*\*/

?H:#\$d\_sitearch SITEARCH\_EXP "\$sitearchexp" /\*\*/

?H:.

?LINT:change prefixvar

?LINT:set installsitearch

?LINT:set

sitearch

?LINT:set sitearchexp

```

: determine where site specific architecture-dependent libraries go.
: sitelib default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
dflt="$dflt/$archname"
;;
*) dflt="$sitearch"
;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM

```

The installation process will also create a directory for architecture-dependent site-specific extensions and modules.

```

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
./getfile
prefixvar=sitearch
./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
d_sitearch="$undef"
else
d_sitearch="$define"
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/sitearch.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:42 ram
?RCS: Baseline for dist 3.0 netwide release.

```

```

?RCS:
?X:
?X: This unit looks whether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
that it should
?C: include <sys/wait.h>.
?C:.
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
set sys/wait.h i_syswait
eval $inhdr

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_syswait.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:08 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.

```

?C:HAS\_SETGROUPS:

?C: This symbol, if defined, indicates that the setgroups() routine is

?C: available

to set the list of process groups. If unavailable, multiple

?C: groups are probably not supported.

?C:.

?H:#\$d\_setgrps HAS\_SETGROUPS /\*\*/

?H:.

?LINT:set d\_setgrps

: see if setgroups exists

set setgroups d\_setgrps

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_setgrps.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: AAAAA.U,v \$

?RCS: Revision 3.0.1.4 1994/06/20 06:50:26 ram

?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI

?RCS:

?RCS: Revision 3.0.1.3 1994/05/06 14:01:39 ram

?RCS: patch23: initials for Wayne Davison are now WED

?RCS: patch23: added initials for new unit contributor Andy Dougherty

?RCS:

?RCS: Revision 3.0.1.2 1994/01/24 14:01:09 ram

?RCS: patch16: make metalint shut up on special unit definition for All target

?RCS:

?RCS: Revision

3.0.1.1 1993/09/13 15:43:57 ram

?RCS: patch10: documents initials used for Wayne Davison's contributions

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:44 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this file is to supply the head of the Makefile created

?X: by metaconfig. For this reason it must be first in alphabetical order.  
?X: The leading '+' in front of the unit name is a hint for metalint, since  
?X: the use of that special unit name as a "made" unit is legitimate here.  
?X:  
?MAKE:+All: Finish  
?X:  
?X: Throughout the units, the following initials are used to identify comments:  
?X:  
?X: HMS: Harlan Stenn  
?X: RAM: Raphael Manfredi  
?X: WED: Wayne Davison (was WAD by mistake--RAM)  
?X: ADO: Andy Dougherty  
?X: JHI: Jarkko Hietaniemi  
?X:  
?X: Agreed, this is a weird place to document it, but I couldn't find a better  
?X: place to do so. I've bet on the curiosity of users, who would probably  
?X: want to know what's in this strangely-named file--RAM.

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/AAAAA.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_strcspn.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:33 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_strcspn: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_strcspn:  
?S: This variable conditionally defines the HAS\_STRCSPN symbol, which  
?S: indicates to the C program that the strcspn() routine is available  
?S: to scan strings.  
?S:.  
?C:HAS\_STRCSPN (STRCSPN):  
?C: This symbol, if defined, indicates that the strcspn routine is  
?C: available to scan

```
strings.  
?C:.  
?H:#$d_strcspn HAS_STRCSPN /**/  
?H:.  
?LINT:set d_strcspn  
: see if strcspn exists  
set strcspn d_strcspn  
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_strcspn.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$  
?RCS:  
?RCS: Copyright (c) 2014, H.Merijn Brand  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: $Log: d_dladdr.U,v $  
?RCS:  
?MAKE:d_dladdr: Inlibc  
?MAKE: -pick add $@ %<  
?S:d_dladdr:  
?S: This variable conditionally defines the HAS_DLADDR symbol, which  
?S: indicates to the C program that the dladdr() routine is available  
?S: to get a stack trace.  
?S:.  
?C:HAS_DLADDR:  
?C: This symbol, if defined, indicates that the dladdr() routine is  
?C: available to query dynamic linker information for an address.  
?C: The <dlfcn.h> header must be included to use this routine.  
?C:.  
?H:#$d_dladdr HAS_DLADDR /**/  
?H:.  
?LINT:set d_dladdr  
:  
: see if dladdr exists  
set dladdr d_dladdr  
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```



5.32.1~rc1/U/modified/d\_dladdr.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:30:04 ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:07:02 ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
dflt='sl'
else
dflt='so'
fi
;;
```

```
*) dflt="$so";;
esac
$cat <<EOM
```

On some systems, shared libraries may be available. Answer 'none' if you want to suppress searching of shared libraries for the remainder of this configuration.

```
EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"
```

```
: Does target system insist that shared library basenames are unique
$cat << EOM
```

Some dynamic loaders assume that the \*basename\* of shared library filenames are globally unique. We'll default this to undef as we assume your system is not this weird. Set to defined if you're on one of them.

```
EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef" ;;
esac
set d_libname_unique
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/so.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

?RCS: \$Log: d\_shmctl.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:18 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_shmctl: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_shmctl:  
?S: This variable conditionally defines the HAS\_SHMCTL symbol, which  
?S: indicates to the C program that the shmctl() routine is available.  
?S:.  
?C:HAS\_SHMCTL:  
?C: This symbol, if defined, indicates that the shmctl() routine is  
?C: available to perform shared memory control operations.  
?C:.  
?H:#\$d\_shmctl  
HAS\_SHMCTL /\*\*/  
?H:.  
?LINT:set d\_shmctl  
: see if shmctl exists  
set shmctl d\_shmctl  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_shmctl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.  
?RCS:  
?RCS: \$Log: d\_dosuid.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 15:33:03 ram  
?RCS: patch61: moved unit to TOP via a ?Y: layout directive  
?RCS: patch61: tell them /dev/fd is not about floppy disks  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:12:08 ram  
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:55 ram

```

?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
d_suidsafe: cat contains ls rm test Myread Setvar \
Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure. This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
?C: is done securely.
Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

```

Some kernels have a bug that prevents setuid #! scripts from being secure. Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.  
(If setuid #! scripts would be secure but have been disabled anyway,

don't say that they are secure if asked.)

EOM

```
val="$undef"
if $test -d /dev/fd; then
echo "#!$ls" >reflect
chmod +x,u+s reflect
./reflect >flect
2>&1
if $contains "/dev/fd" flect >/dev/null; then
echo "Congratulations, your kernel has secure setuid scripts!" >&4
val="$define"
else
$cat <<EOM
```

If you are not sure if they are secure, I can check but I'll need a username and password different from the one you are using right now. If you don't have such a username or don't want me to test, simply enter 'none'.

EOM

```
rp='Other username to test security of setuid scripts with?'
dflt='none'
. ./myread
case "$ans" in
n|none)
case "$d_suidsafesafe" in
") echo "I'll assume setuid scripts are *not* secure." >&4
dflt=n;;
"$undef")
echo "Well, the $hint value is *not* secure." >&4
dflt=n;;
*) echo "Well, the $hint value *is* secure." >&4
dflt=y;;
esac
;;
*)
$rm -f reflect flect
echo "#!$ls" >reflect
chmod +x,u+s reflect
echo >flect
chmod a+w flect
echo "'su' will (probably) prompt you for '$ans's password.'"
su $ans -c './reflect >flect'
if $contains "/dev/fd" flect
>/dev/null; then
echo "Okay, it looks like setuid scripts are secure." >&4
dflt=y
```

```

else
  echo "I don't think setuid scripts are secure." >&4
  dflt=n
fi
;;
esac
rp='Does your kernel have *secure* setuid scripts?'
./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef";;
esac
fi
else
echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
echo "(That's for file descriptors, not floppy disks.)"
val="$undef"
fi
set d_suidsafes
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
echo " "
val="$undef"
case "$d_suidsafes" in
"$define")
val="$undef"
echo "No need to emulate SUID scripts since they are secure here." >& 4
;;
*)
$cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure. On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless. It is possible for $package to detect those bits
and emulate
setuid/setgid in a secure fashion. This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
case "$d_dosuid" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
rp="Do you want to do setuid/setgid emulation?"
./myread

```

```
case "$ans" in
[yY]*) val="$define";;
*) val="$undef";;
esac
;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_dosuid.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 2011, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?MAKE:i_execinfo: Inhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_execinfo:
```

```
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
```

```
?S: whether a C program may include <execinfo.h>, for backtrace() support.
```

```
?S:.
```

```
?C:I_EXECINFO:
```

```
?C: This symbol, if defined, indicates to the C program that it should
```

```
?C: include <execinfo.h> for backtrace() support.
```

```
?C:.
```

```
?H:#$i_execinfo I_EXECINFO /**/
```

```
?H:.
```

```
?LINT:set i_execinfo
```

```
: see if this is an execinfo.h system
```

```
set execinfo.h i_execinfo
```

```
eval
```

```
$inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_execinfo.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
```

?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_semget.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:05 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_semget: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_semget:  
?S: This variable conditionally defines the HAS\_SEMGET symbol, which  
?S: indicates to the C program that the semget() routine is available.  
?S:.  
?C:HAS\_SEMGET:  
?C: This symbol, if defined, indicates that the semget() routine is  
?C: available to get a set of semaphores.  
?C:.  
?H:#\$d\_semget  
HAS\_SEMGET /\*\*/  
?H:.  
?LINT:set d\_semget  
: see if semget exists  
set semget d\_semget  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_semget.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Rcs.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:05:15 ram



?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This is a unit that helps people who write SH scripts and keep them under

?X: RCS, but don't think to protect the \$Log and other \$Id keywords from

?X: variable substitution (or people like me who do not like to).

?X:

?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig

?MAKE: -pick weed \$@ %<

?LINT:describe Author

Date Header Id Locker Log RCSfile Revision Source State

: preserve RCS keywords in files with variable substitution, grrr

?Author:Author='\$Author'

?Date:Date='\$Date'

?Header:Header='\$Header'

?Id:Id='\$Id'

?\$Locker'

?Log:Log='\$Log'

?RCSfile:RCSfile='\$RCSfile'

?Revision:Revision='\$Revision'

?Source:Source='\$Source'

?State:State='\$State'

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Rcs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996,1998 Andy Dougherty

?RCS: Copyright (c) 1996, Sven Verdoolaege

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d\_gnulibc gnulibc\_version: Myread Oldconfig Setvar rm\_try \  
cat Compile run

?MAKE: -pick add \$@ %<

?S:d\_gnulibc:

?S: Defined if we're dealing with the GNU C Library.

?S:.

?S:gnulibc\_version:

?S: This variable contains the version number of the GNU C library.

```

?S: It is usually something like '2.2.5'. It is a plain " if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC ~ %<:
?C: This
symbol, if defined, indicates to the C program that
?C: the GNU C library is being used. A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(. Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables. For 2.0.6,
?X: they are:
?X: #define __GLIBC__ 2
?X: #define __GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X: extern const char * __gnu_get_libc_release(void);
?X: extern const char *
__gnu_get_libc_version(void);
?X: functions. --thanks to Andreas Jaeger. --AD 6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library. __GLIBC__ and __GLIBC_MINOR__
alone are insufficient to distinguish different versions, such as
2.0.6 and 2.0.7. The function gnu_get_libc_version() appeared in
libc version 2.1.0. A. Dougherty, June 3, 2002.
*/
#include <stdio.h>
int main(void)

```

```

{
#ifdef __GLIBC__
#  ifdef __GLIBC_MINOR__
#    if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#      include <gnu/libc-version.h>
      printf("%s\n", gnu_get_libc_version());
#    else
      printf("%d.%d\n", __GLIBC__, __GLIBC_MINOR__);
#    endif
#  else
      printf("%d\n", __GLIBC__);
#  endif
  return 0;
#else
  return 1;
#endif
}
EOCP
set
try
if eval $compile_ok && $run ./try > glibc.ver; then
  val="$define"
  gnulibc_version=`$cat glibc.ver`
  echo "You are using the GNU C Library version $gnulibc_version"
else
  val="$undef"
  gnulibc_version=""
  echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_gnulibc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

```

?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:10 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=""
if $test -r /dev/fpa; then
  $cat>fpa.c << GOOP
  main(){return(1);}
GOOP
$cc
-ffpa -o fpa fpa.c
fpa > fpa.out 2>&1
if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'

```

You seem to have a sun fpa... I can compile the code to use the fpa but it will mean that the code can ONLY run on a machine with a fpa...

```

EOM
rp="Should I compile for fpa?"
./myread
if $test $ans = "n"; then
  fpu=""
else
  fpu='-ffpa'
fi
else
  $cat <<'EOM'

```

You have the fpa device but I can't seem to use it. Maybe you should talk to your sysadmin about this. For now, I am not going to compile it in.

```

EOM
fi
fi
if $test "$fpu" = ""; then

```

```
if $test -r /usr/etc/mc68881version; then
dflt='y'
$cat <<'EOM'
```

There also seems to be the pieces for a 68881. If I compile this in, it will work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM

```
rp="Should I compile for a 68881?"
./myread
if $test $ans = "y"; then
fpu='-f68881'
fi
fi
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/fpu.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t HAS_INT64_T /**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
```

```

#include
<sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
val="$define"
echo "You have int64_t."
else
val="$undef"
echo "You do not have int64_t."
fi
$rm_try
set d_int64_t
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_int64_t.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:07:28 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision

```

```

number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number. If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cpptest $cpptestflags $cpptestminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
echo "DBL_DIG found." >&4
val="$define"
else
echo "DBL_DIG NOT found." >&4
val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_dbl_dig.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

?RCS: \$Log: d\_rmdir.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:56 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_rmdir: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_rmdir:  
?S: This variable conditionally defines HAS\_RMDIR if rmdir() is  
?S: available to remove directories.  
?S:.  
?C:HAS\_RMDIR (RMDIR):  
?C: This symbol, if defined, indicates that the rmdir routine is  
?C: available to remove directories. Otherwise you should fork off a  
?C: new process to exec  
/bin/rmdir.  
?C:.  
?H:#\$d\_rmdir HAS\_RMDIR /\*\*/  
?H:.  
?LINT:set d\_rmdir  
: see if rmdir exists  
set rmdir d\_rmdir  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_rmdir.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_sysmman.U,v \$  
?RCS: Revision 3.0.1.1 1994/01/24 14:11:20 ram  
?RCS: patch16: created  
?RCS:  
?X:  
?X: Look wether <sys/mman.h> needs to be included.  
?X:  
?MAKE:i\_sysmman: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_sysmman:



?S: This variable conditionally defines the I\_SYS\_MMAN symbol,  
?S: and indicates whether a C program should include <sys/mman.h>.  
?S:.  
?C:I\_SYS\_MMAN:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <sys/mman.h>.  
?C:.  
?H:#\$i\_sysmman I\_SYS\_MMAN /\*\*/  
?H:.  
?LINT:set  
i\_sysmman  
: see if sys/mman.h has to be included  
set sys/mman.h i\_sysmman  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_sysmman.U

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2018-2018, H.Merijn Brand

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d\_pipe2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_pipe2:

?S: This variable conditionally defines the HAS\_PIPE2 symbol, which

?S: indicates to the C program that the pipe2() routine is available

?S: to create an inter-process channel.

?S:.

?C:HAS\_PIPE2:

?C: This symbol, if defined, indicates that the pipe2 routine is

?C: available to create an inter-process channel.

?C:.

?H:#\$d\_pipe2 HAS\_PIPE2 /\*\*/  
?H:.

?LINT:set d\_pipe2

: see if pipe2 exists

set pipe2 d\_pipe2

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_pipe2.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:19 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
?C: space.
?C:.
?H:#$d_shmdt HAS_SHMDT /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_shmdt.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_mbstowcs.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:29 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_mbstowcs: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mbstowcs:  
?S: This variable conditionally defines the HAS\_MBSTOWCS symbol, which  
?S: indicates to the C program that the mbstowcs() routine is available  
?S: to convert a multibyte string into a wide character string.  
?S:.  
?C:HAS\_MBSTOWCS (MBSTOWCS):  
?C: This symbol, if defined, indicates  
that the mbstowcs routine is  
?C: available to convert a multibyte string into a wide character string.  
?C:.  
?H:#\$d\_mbstowcs HAS\_MBSTOWCS /\*\*/  
?H:.  
?LINT:set d\_mbstowcs  
: see if mbstowcs exists  
set mbstowcs d\_mbstowcs  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_mbstowcs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: html3dir.U,v \$  
?RCS:  
?RCS: Copyright (c) 1999 Andy Dougherty  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: html3dir.U,v \$  
?RCS:  
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \  
spackage test Getfile Setprefixvar Prefixit Prefixup html1dir  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?D:html3dir="  
?S:html3dir:

?S: This variable contains the name of the directory in which html  
 ?S: source pages are to be put. This directory is for pages  
 ?S: that describe libraries or modules. It is intended to  
 ?S: correspond roughly to section 3 of the Unix manuals.  
 ?S:.  
 ?D:html3direxp="  
 ?S:html3direxp:  
 ?S: This variable  
 is the same as the html3dir variable, but is filename  
 ?S: expanded at configuration time, for convenient use in makefiles.  
 ?S:.  
 ?D:installhtml3dir="  
 ?S:installhtml3dir:  
 ?S: This variable is really the same as html3direxp, unless you are  
 ?S: using a different installprefix. For extra portability, you  
 ?S: should only use this variable within your makefiles.  
 ?S:.  
 ?LINT:change prefixvar  
 ?LINT:set html3direxp  
 ?LINT:set installhtml3dir  
 : determine where html pages for libraries and modules go  
 set html3dir html3dir none  
 eval \$prefixit  
 \$cat <<EOM

If you wish to install html files for modules associated with \$spackage,  
 indicate the appropriate directory here. To skip installing html files,  
 answer "none".

EOM

: There is no obvious default. If they have specified html1dir, then  
 : try to key off that, possibly changing ../html1 into ../html3.  
 case "\$html3dir" in  
 ") html3dir=`echo "\$html1dir" | \$sed 's/1\$/3\$/'` ;;  
 \*) dflt=\$html3dir ;;  
 esac  
 fn=dn+~  
 rp="Directory for the \$spackage module  
 html pages?"  
 ./getfile  
 prefixvar=html3dir  
 ./setprefixvar  
 : Use ' ' for none so value is preserved next time through Configure  
 \$test X"\$html3dir" = "X" && html3dir=' '

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
 5.32.1~rc1/U/installdirs/html3dir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:47:43 ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25 14:09:10 ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1 1995/03/21 08:47:46 ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
```

```

"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
and friends!" >&4;;
*)
echo "Let's see whether you can use the WIFEXITED(status) macro and its"
case "$d_uwait" in
"$define") type='union wait';
*) type='int';;
esac
echo "friends with status declared as '$type status'..."
$cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
$type status;
int e = 0;

#ifdef WIFEXITED
if (WIFEXITED(status))
printf("\n");
exit(0);
#else
exit(2);
#endif
}
EOCP
d_wifstat="$undef"
set foo
if eval $compile; then
if ./foo >/dev/null; then
echo "Great! Looks like we can use the WIFxxx macros." >&4
d_wifstat="$define"
else
echo "You don't seem to have WIFxxx macros, but that's ok." >&4
fi
else
echo "Apparently you can't use WIFxxx macros properly." >&4
fi
$rm -f foo.* foo core
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_wifstat.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socketmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_socketmarkproto:
?S: This variable conditionally defines the HAS_SOCKETMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the socketmark() function. Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKETMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the socketmark() function. Otherwise, it is up
?C: to the program to supply one. A good
guess is
?C: extern int socketmark(int);
?C:.
?H:#$d_socketmarkproto HAS_SOCKETMARK_PROTO /**/
?H:.
?LINT:set d_socketmarkproto
: see if prototype for socketmark is available
echo " "
set d_socketmarkproto socketmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_socketmarkproto.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_ctermid.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:05:54 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_ctermid: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_ctermid:  
?S: This variable conditionally defines CTERMID if ctermid() is  
?S: available to generate filename for terminal.  
?S:.  
?C:HAS\_CTERMID (CTERMID):  
?C: This symbol, if defined, indicates that the ctermid routine is  
?C: available to generate filename for terminal.  
?C:.  
?H:#\$d\_ctermid  
HAS\_CTERMID /\*\*/  
?H:.  
?LINT:set d\_ctermid  
: see if ctermid exists  
set ctermid d\_ctermid  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_ctermid.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_round:

?S: This variable conditionally defines the HAS\_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS\_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d\_round HAS\_ROUND /\*\*/  
?H:.

?LINT:set d\_round  
: see if round exists  
set round d\_round  
eval \$inlibc



Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_round.U

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017, Karl Williamson

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_wrtomb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_wrtomb:

?S: This variable conditionally defines the HAS\_WCRTOMB symbol if the

?S: wrtomb() routine is available to be used to convert a wide character

?S: into a multi-byte character.

?S:.

?C:HAS\_WCRTOMB:

?C: This symbol, if defined, indicates that the wrtomb routine is

?C: available to convert a wide character into a multi-byte character.

?C:.

?H:#\$d\_wrtomb HAS\_WCRTOMB /\*\*/

?H:.

?LINT: set d\_wrtomb

: see if wrtomb exists

set wrtomb d\_wrtomb

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_wrtomb.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_cbrt.U,v \$

```
?RCS: Revision 3.0 1993/08/18 12:05:48 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
?H:.
?LINT:set
d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_cbrt.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
?C:.
?H:#define Fpos_t_size $fpossize /* FPOS size */
?H:.
?T:yyy zzz
?F:!try
```

```

: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*) zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#ifdef _STDLIB
#include <stdlib.h>
#endif
int main() {
    printf("%d\n", (int)sizeof($fpostype));
    exit(0);
}
EOCP
set try
if eval $compile_ok; then
yyy=`$run ./try`
case "$yyy" in
") fpossize=4
    echo "(I can't execute the test program--guessing $fpossize.)" >&4
    ;;
*) fpossize=$yyy
    echo "Your $zzz is $fpossize bytes long."
    ;;
esac
else
dflt="$longsize"
echo " " >&4
echo "(I can't compile the test program. Guessing...)" >&4
rp="What is the size of your file positions (in bytes)?"
./myread
fpossize="$ans"
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/fpossize.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998, Jarkko Hietaniemi

```

?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess I_SYS_ACCESS          /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
eval $inhdr

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1-rc1/U/acl/i_sysaccess.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"

```

```
?H:
: define absolute package source directory
case "$src" in
/*) pkgsrc=$src;;
*) pkgsrc=`cd $src; pwd`;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/pkgsrc.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?MAKE:d_flockproto: Hasproto i_sysfile
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_flockproto:
```

```
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
```

```
?S: which indicates to the C program that the system provides
```

```
?S: a prototype for the flock() function. Otherwise, it is
```

```
?S: up to the program to supply one.
```

```
?S:.
```

```
?C:HAS_FLOCK_PROTO:
```

```
?C: This symbol, if defined, indicates that the system provides
```

```
?C: a prototype for the flock() function. Otherwise, it is up
```

```
?C: to the program to supply one. A good guess is
```

```
?C: extern int flock(int,
```

```
int);
```

```
?C:.
```

```
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
```

```
?H:.
```

```
?LINT:set d_flockproto
```

```
: see if prototype for flock is available
```

```
echo " "
```

```
set d_flockproto flock $i_sysfile sys/file.h
```

```
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_flockproto.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:48 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
?LINT:set
d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_truncate.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```

?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:33 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
I_SYS_NDIR /**/
?H:.
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_sysndir.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:37 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:

```

```

?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
?S:d_cppignhdrs:
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

```

\$package needs to be able to preprocess its input files in a mode which preserves comments, which is often not the default behaviour. It should run



the C preprocessor you will use when compiling your own source code, which should be ISO/ANSI C compliant if you want \$package to handle the latest standard C. I will try to guess, but I might guess wrongly because it is not necessarily the same preprocessor used to build \$package.

EOM

```
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
/* comment */
EOT
:
if $test "X$cppfilecom"
  != "X" && \
  $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
then
  echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
  $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
then
  echo "It works!"
  cppfilecom="$cc -E -C"
elif echo 'Nope...maybe ""$cc"" -P -C" will work...' && \
  $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
then
  echo "Yup, that does."
  cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe ""$cpp"" -C" will work...' && \
  $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out
  >/dev/null 2>&1
then
  echo "Yup, it does."
  cppfilecom="$cpp -C"
else
  cppfilecom=""
  $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
```

```

:
dflt="$cppfilecom"
cont=true
while $stest "$cont" ; do
echo " "
rp="How should $package run your preprocessor preserving comments?"
./myread
cppfilecom="$ans"
$cppfilecom testcpp.c >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
$contains comment testcpp.out >/dev/null 2>&1
then
echo "OK, that will do."
cont=""
else
echo "Sorry, I can't get that to work."
fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
$contains comment testcpp.out >/dev/null 2>&1
then
echo "Terrific; it processes .h files passed on the command line too."
val="$undef"
else
echo "It ignores .h files on the command line; pity."
val="$define"
fi
set
d_cppignhdrs
eval $setvar

@end

@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
$contains comment testcpp.out >/dev/null 2>&1
then
echo "Great; and it will read stdin if passed no arguments."
val="$define"
cppstdinflags="

```

```

else
$cpfilecom - <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
$contains comment testcpp.out >/dev/null 2>&1
then
echo "Great; and it can read stdin by passing it '-!'"
val="$define"
cppstdinflags='- '
else
$cat <<FOO
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.

```

```

FOO
val='dunno'
while $test "$val" = "dunno"; do
rp='Flags to get preprocessor
to read stdin?'
dflt='none'
./myread
if $test $ans = 'none'; then
echo "Oh well, if $package wants it done, it will do it for itself."
val="$undef"
else
$cpfilecom $ans <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
$contains comment testcpp.out >/dev/null 2>&1
then
echo "Good; that works fine."
val="$define"
cppstdinflags="$ans"
else
echo "Sorry, I couldn't get that to work."
fi
fi
done
fi
fi
set d_cppcanstdn
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*

```

Found in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

### 5.32.1~rc1/dist/U/cppfilecom.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999, Andy Dougherty

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: vendorbin.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:d\_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \

Setprefixvar Oldconfig Prefixit vendorprefix

?MAKE: -pick add \$@ %<

?Y:TOP

?S:vendorbin:

?S: This variable contains the eventual value of the VENDORBIN symbol.

?S: It may have a ~ on the front.

?S: The standard distribution will put nothing in this directory.

?S: Vendors who distribute perl

may wish to place additional

?S: binaries in this directory with

?S: MakeMaker Makefile.PL INSTALLDIRS=vendor

?S: or equivalent. See INSTALL for details.

?S:.

?S:vendorbinexp:

?S: This variable is the ~name expanded version of vendorbin, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installvendorbin="

?S:installvendorbin:

?S: This variable is really the same as vendorbinexp but may differ on

?S: those systems using AFS. For extra portability, only this variable

?S: should be used in makefiles.

?S:.

?S:d\_vendorbin:

?S: This variable conditionally defines PERL\_VENDORBIN.

?S:.

?C:PERL\_VENDORBIN:

?C: If defined, this symbol contains the name of a directory

?C: for holding vendor-supplied executables.

?C: It may have a ~ on the front.

?C: The standard distribution will put nothing in this directory.

?C: Vendors who distribute perl may wish to place additional

?C: binaries in this directory with

?C: MakeMaker Makefile.PL INSTALLDIRS=vendor

?C: or equivalent.

See INSTALL for details.

?C:.

?C:PERL\_VENDORBIN\_EXP:

?C: This symbol contains the ~name expanded version of VENDORBIN, to be used

?C: in programs that are not prepared to deal with ~ expansion at run-time.

?C:.

?H:#\$d\_vendorbin PERL\_VENDORBIN "\$vendorbin" /\*\*/

?H:#\$d\_vendorbin PERL\_VENDORBIN\_EXP "\$vendorbinexp" /\*\*/

?H:.

?LINT:change prefixvar

?LINT:set installvendorbin

: Set the vendorbin variables

case "\$vendorprefix" in

\*) d\_vendorbin="\$undef"

vendorbin="

vendorbinexp="

::

\*) d\_vendorbin="\$define"

: determine where vendor-supplied executables go.

case "\$vendorbin" in

\*) dflt=\$vendorprefix/bin ;;

\*) dflt="\$vendorbin" ;;

esac

fn=d~+

rp='Pathname for the vendor-supplied executables directory?'

./getfile

vendorbin="\$ans"

vendorbinexp="\$ansexp"

::

esac

prefixvar=vendorbin

./installprefix

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorbin.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llrint:  
?S: This variable conditionally defines the HAS\_LLRRINT symbol, which  
?S: indicates to the C program that the llrint() routine is available  
?S: to return the long long value closest to a double (according  
?S: to the current rounding mode).

?S:.

?C:HAS\_LLRRINT:

?C: This symbol, if defined, indicates that the llrint routine is  
?C: available to return the long long value closest to a double  
?C: (according to the current rounding mode).

?C:.

?H:#\$d\_llrint HAS\_LLRRINT /\*\*/

?H:.

?LINT:set d\_llrint

: see if llrint exists

set llrint d\_llrint

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_llrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strtold\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtold\_l:

?S: This variable conditionally defines the HAS\_STRTOLD\_L symbol, which

?S: indicates to the C program that the strtold\_l() routine is available.

?S:.

?C:HAS\_STRTOLD\_L:

?C: This symbol, if defined, indicates that the strtold\_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtold\_l HAS\_STRTOLD\_L /\*\*/

?H:.

?LINT:set d\_strtold\_l

: see if strtold\_l exists

set strtold\_l d\_strtold\_l

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_strtold\_1.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Null.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_ffs.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_ffs.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_ffs: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ffs:

?S: This variable conditionally defines the HAS\_FFS symbol, which

?S: indicates to the C program that the ffs() routine is available  
?S: to find the first bit which is set in its integer argument.  
?S:.  
?C:HAS\_FFS:  
?C: This symbol, if defined, indicates that the ffs routine is available  
?C: to  
find the first bit set in its argument. If it's not available,  
?C: roll your own.  
?C:.  
?H:#\$d\_ffs HAS\_FFS /\*\*/  
?H:.  
?LINT:set d\_ffs  
: see if ffs exists  
set ffs d\_ffs  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_ffs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_fpclassl: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_fpclassl:  
?S: This variable conditionally defines the HAS\_FPCLASSL symbol, which  
?S: indicates to the C program that the fpclassl() routine is available.  
?S:.  
?C:HAS\_FPCLASSL:  
?C: This symbol, if defined, indicates that the fpclassl routine is  
?C: available to classify long doubles. Available for example in IRIX.  
?C: The returned values are defined in <ieeefp.h> and are:  
?C:  
?C: FP\_SNAN signaling NaN  
?C: FP\_QNAN quiet NaN  
?C: FP\_NINF negative infinity  
?C: FP\_PINF positive infinity  
?C: FP\_NDENORM negative denormalized non-zero  
?C: FP\_PDENORM positive denormalized non-zero  
?C: FP\_NZERO negative zero  
?C: FP\_PZERO positive zero  
?C: FP\_NNORM negative



normalized non-zero  
?C: FP\_PNORM positive normalized non-zero  
?C:.  
?H:#\$d\_fpclassl HAS\_FPCLASSL /\*\*/  
?H:.  
?LINT:set d\_fpclassl  
: see if fpclassl exists  
set fpclassl d\_fpclassl  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fpclassl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_crypt\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_crypt\_r crypt\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_crypt extern\_C

?MAKE: -pick add \$@ %<

?S:d\_crypt\_r:

?S: This variable conditionally defines the HAS\_CRYPT\_R symbol,

?S: which indicates to the C program that the crypt\_r()

?S: routine is available.

?S:.

?S:crypt\_r\_proto:

?S: This variable encodes the prototype of crypt\_r.

?S: It is zero if d\_crypt\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_crypt\_r

?S: is defined.

?S:.

?C:HAS\_CRYPT\_R:

?C: This symbol, if defined, indicates that the crypt\_r routine

?C: is available to crypt re-entrantly.

?C:.

?C:CRYPT\_R\_PROTO:

?C: This

symbol encodes the prototype of crypt\_r.

?C: It is zero if d\_crypt\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_crypt\_r

?C: is defined.

?C:.

```

?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
case "$d_crypt_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
case "$d_crypt_r_proto:$usethreads" in
":define") d_crypt_r_proto=define
set d_crypt_r_proto crypt_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_crypt_r_proto" in
define)
case "$crypt_r_proto" in
"|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
esac
case "$crypt_r_proto" in
"|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
esac
case "$crypt_r_proto" in
"|0) d_crypt_r=undef
crypt_r_proto=0
echo
"Disabling crypt_r, cannot determine prototype." >&4 ;;
*) case "$crypt_r_proto" in
REENTRANT_PROTO*) ;;
*) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "crypt_r has no prototype, not using it." >&4 ;;
esac
d_crypt_r=undef
crypt_r_proto=0
;;
esac
;;
*) crypt_r_proto=0
;;

```

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_crypt\_r.U

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?RCS: \$Id: d\_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_setpgrp.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:44:16 ram

?RCS: patch61: obsoleted USE\_BSDGRP in favor of USE\_BSD\_SETPGRP

?RCS: patch61: another unit now also defines a USE\_BSD\_GETPGRP

?RCS: patch61: fallback for test program failure improved

?RCS:

?RCS: Revision 3.0.1.2 1995/07/25 13:59:30 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:15:37 ram

?RCS: patch36: added

'ldflags' to the test compile line (ADO)

?RCS: patch36: call ./usg explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_setpgrp d\_bsdsetpgrp: cat rm\_try +cc +libs +ccflags \

+ldflags Inlibc Guess Setvar i\_unistd i\_stdlib run

?MAKE: -pick add \$@ %<

?S:d\_setpgrp:

?S: This variable conditionally defines HAS\_SETPGRP if setpgrp() is

?S: available to set the current process group.

?S:.

?S:d\_bsdsetpgrp (d\_bsdpggrp):

?S: This variable conditionally defines USE\_BSD\_SETPGRP if

?S: setpgrp needs two arguments whereas USG one needs none.

?S: See also d\_setpgid for a POSIX interface.

?S:.

?C:HAS\_SETPGRP (SETPGRP):

?C: This symbol, if defined, indicates that the setpgrp routine is

?C: available to set the current process group.  
?C:.  
?C:USE\_BSD\_SETPGRP (USE\_BSDPGRP BSDPGRP):  
?C: This symbol, if defined, indicates that setpgrp needs two  
?C: arguments whereas USG one needs none. See also HAS\_SETPGID  
?C: for  
a POSIX interface.  
?C:.  
?H:#\$d\_setpgrp HAS\_SETPGRP /\*\*/  
?H:#\$d\_bsdsetpgrp USE\_BSD\_SETPGRP /\*\*/  
?H:.  
?T:xxx  
?F:!try  
?LINT:set d\_setpgrp d\_bsdsetpgrp  
: see if setpgrp exists  
set setpgrp d\_setpgrp  
eval \$inlibc

```
@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
echo " "
echo "Checking to see which flavor of setpgrp is in use..."
$cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
if (getuid() == 0) {
printf("I see you are running Configure as super-user...)\n");
setuid(1);
}
#ifdef TRY_BSD_PGRP
if (-1 == setpgrp(1, 1))
exit(0);
#else
if (setpgrp() != -1)
exit(0);
#endif
exit(1);
```

```

}
EOP
if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
    echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
    val="$define"
elif $cc -o try $ccflags $ldflags try.c $libs
    >/dev/null 2>&1 && $run ./try; then
    echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
    val="$undef"
else
    echo "(I can't seem to compile and run the test program.)"
    if ./usg; then
        xxx="a USG one, i.e. you use setpgrp()."
    else
        # SVR4 systems can appear rather BSD-ish.
        case "$i_unistd" in
            $undef)
                xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
                val="$define"
                ;;
            $define)
                xxx="probably a USG one, i.e. you use setpgrp()."
                val="$undef"
                ;;
        esac
    fi
    echo "Assuming your setpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_setpgrp.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: ipc.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:53 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:ipc serve\_shm serve\_msg serve\_inet\_udp serve\_inet\_tcp serve\_unix\_udp \  
serve\_unix\_tcp: test Myread Oldconfig d\_socket d\_msg d\_shm d\_sem  
?MAKE: -pick add \$@ %<  
?LINT:use d\_msg d\_sem  
?S:ipc:  
?S: This variable holds the type of IPC service we'll be using. Values  
?S: include "ip", "shm", "msg", "cms" and "os9". We don't worry about  
?S: cms or os9  
here, because Configure doesn't run in those places--HMS.  
?S:.  
?S:serve\_shm:  
?S: This variable controls the definition of SERVE\_SHM, which tells the  
?S: C program to use USG shared memory for IPC.  
?S:.  
?S:serve\_msg:  
?S: This variable controls the definition of SERVE\_MSG, which tells the  
?S: C program to use USG message queues for IPC.  
?S:.  
?S:serve\_inet\_udp:  
?S: This variable controls the definition of SERVE\_INET\_UDP, which tells  
?S: the C program to enable InterNet-domain UDP support for IPC.  
?S:.  
?S:serve\_inet\_tcp:  
?S: This variable controls the definition of SERVE\_INET\_TCP, which tells  
?S: the C program to enable InterNet-domain TCP support for IPC.  
?S:.  
?S:serve\_unix\_udp:  
?S: This variable controls the definition of SERVE\_UNIX\_UDP, which tells  
?S: the C program to enable Unix-domain UDP support for IPC.  
?S:.  
?S:serve\_unix\_tcp:  
?S: This variable controls the definition of SERVE\_UNIX\_TCP, which tells  
?S: the C program to enable Unix-domain TCP support for IPC.  
?S:.  
?C:SERVE\_SHM:  
?C: If  
defined, tells the C program to use USG shared memory for IPC.  
?C:.  
?C:SERVE\_MSG:  
?C: If defined, tells the C program to use USG message queues for IPC.  
?C:.

```

?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm="
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp="
?INIT:serve_inet_tcp="
?INIT:serve_unix_udp="
?INIT:serve_unix_tcp="
: get IPC mechanism
echo
" "
ipc="
while $test -z "$ipc"
do
if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
ipc="
if $test "$serve_inet_udp" = "$undef"; then
dflt=n
else
dflt=y
fi
rp='Provide InterNet-domain UDP service?'
./myread
dflt="
case "$ans" in
n*) serve_inet_udp="$undef";;

```

```

*)
serve_inet_udp="$define"
ipc='ip'
;;
esac

if $test "$serve_inet_tcp" = "$define"; then
dflt=y
else
dflt=n
fi
rp='Provide InterNet-domain TCP service?'
./myread
dflt=""
case "$ans" in
n*) serve_inet_tcp="$undef";;
*)
serve_inet_tcp="$define"
ipc='ip'
;;
esac

if $test "$serve_unix_udp" = "$define"; then
dflt=y
else
dflt=n
fi
rp='Provide Unix-domain UDP service?'
./myread
dflt=""
case "$ans" in
n*) serve_unix_udp="$undef";;
*)
serve_unix_udp="$define"
ipc='ip'
;;
esac

if $test "$serve_unix_tcp" = "$define"; then
dflt=y
else
dflt=n
fi
rp='Provide Unix-domain TCP service?'
./myread
dflt=""
case

```



```

"$ans" in
n*) serve_unix_tcp="$undef";;
*)
serve_unix_tcp="$define"
ipc='ip'
;;
esac
else
serve_inet_udp="$undef"
serve_inet_tcp="$undef"
serve_unix_udp="$undef"
serve_unix_tcp="$undef"
fi
if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
echo "Providing USG shared memory IPC support." >&4
serve_shm="$define"
ipc='shm'
else
serve_shm="$undef"
fi
if $test -z "$ipc"; then
echo "You must select an IPC mechanism." >&4
fi
done

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/ipc.U

```

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_dbminitproto: Hasproto i\_dbm

?MAKE: -pick add \$@ %<

?S:d\_dbminitproto:

?S: This variable conditionally defines the HAS\_DBMINIT\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the dbminit() function. Otherwise, it is

?S: up to the program to supply one.

?S:.

?C:HAS\_DBMINIT\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the dbm\_init() function. Otherwise, it is up

?C: to the program to supply one. A good guess is

?C: extern

```
int dbm_init(char *);
```

?C:.

?H:#\$d\_dbm\_initproto HAS\_DBMINIT\_PROTO /\*\*/

?H:.

?LINT:set d\_dbm\_initproto

: see if prototype for dbm\_init is available

```
echo " "
```

```
set d_dbm_initproto dbm_init $i_dbm dbm.h
```

```
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_dbm_initproto.U
```

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?RCS: \$Id: d\_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_dlerror.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 13:52:49 ram

?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:11:23 ram

?RCS: patch36: created by ADO

?RCS:

?MAKE:d\_dlerror: Inlibc runnm

?MAKE: -pick add \$@ %<

?S:d\_dlerror:

?S: This variable conditionally defines the HAS\_DLERROR symbol, which

?S: indicates

to the C program that the dlerror() routine is available.

?S:.

?C:HAS\_DLERROR :

?C: This symbol, if defined, indicates that the dlerror routine is

?C: available to return a string describing the last error that  
 ?C: occurred from a call to dlopen(), dlclose() or dlsym().  
 ?C:.  
 ?H:#\$d\_dlerror HAS\_DLERROR /\*\*/  
 ?H:.  
 ?T: xxx\_runnm  
 ?LINT:set d\_dlerror  
 ?X: We don't permanently change runnm, but we do temporarily.  
 ?LINT: change runnm  
 : see if dlerror exists  
 ?X: On NetBSD and FreeBSD, dlerror might be available, but it is in  
 ?X: /usr/lib/crt0.o, not in any of the libraries. Therefore, do not  
 ?X: use the nm extraction, but use a real compile and link test instead.  
 xxx\_runnm="\$runnm"  
 runnm=false  
 set dlerror d\_dlerror  
 eval \$inlibc  
 runnm="\$xxx\_runnm"

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_dlerror.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: shm\_for.U 1 2006-08-24 12:32:52Z rmanfredi \$  
 ?RCS:  
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 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: shm\_for.U,v \$  
 ?RCS: Revision 3.0.1.1 1994/10/29 16:28:37 ram  
 ?RCS: patch36: call ./Cpssym explicitly instead of relying on PATH  
 ?RCS:  
 ?RCS: Revision 3.0 1993/08/18 12:09:46 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:shm\_for shm\_att shm\_lim: Cpssym Myread ipc uname  
 ?MAKE: -pick add \$@ %<  
 ?S:shm\_for:  
 ?S: This variable tells us the type of machine we're expecting the  
 ?S: shared memory code to run on. The value is available to C  
 programs  
 ?S: in the C\_SHM\_FOR manifest.

```

?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached. Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: -----
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: -----
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH. If zero, there is no upper limit.
?C:.
?H:%<:#ifdef
SERVE_SHM
?H:%<:#define S_SHM_FOR "$shm_for"
?H:%<:#define S_SHM_ATT "$shm_att"
?H:%<:#define S_SHM_LIM "$shm_lim"
?H:%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
shm_for='Default case'
shm_att='HIGH'
shm_lim='0x0'
if ./Cppsym tower32 tower32_600; then
echo "NCR Towers are usually normal..."
: echo "Oh, an NCR Tower."
: This works for the 600
shm_for='NCR Tower 32'
shm_att='LOW'

```

```

else
case "$uname" in
*/uname)
case "`uname -m`" in
ACS??68*)
echo "Oh, an Altos 3068."
shm_for='Altos 3068:'
shm_lim='0x800000'
;;
esac
;;
*)
echo "Looks normal to me..."
;;
esac
fi

dflt="$shm_for"
rp='Description of shared memory configuration?'
./myread
shm_for="$ans"

dflt="$shm_att"
rp='Where should shared memory be attached?'
./myread
shm_att="$ans"

case "$shm_att" in
HIGH)
dflt="$shm_lim"
rp='What is
the upper address limit for shared memory?'
./myread
shm_lim="$ans"
;;
*)
shm_lim=""
;;
esac
;;

*)
echo "but you aren't using shared memory so I won't bother." >&4
shm_for='NOT CONFIGURED'
shm_att='NONE'
shm_lim='-1'
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/shm\_for.U

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?RCS:

?MAKE:d\_lgamma\_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma\_r:

?S: This variable conditionally defines the HAS\_LGAMMA\_R symbol, which

?S: indicates to the C program that the lgamma\_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS\_LGAMMA\_R:

?C: This symbol, if defined, indicates that the lgamma\_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d\_lgamma\_r HAS\_LGAMMA\_R /\*\*/

?H:.

?LINT:set d\_lgamma\_r

: see if lgamma\_r exists

set lgamma\_r d\_lgamma\_r

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_lgamma\_r.U

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?RCS:

?RCS: \$Log: sig\_name.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 16:21:25 ram

?RCS: patch61: brand new algorithm for sig\_name and (new!) sig\_num

?RCS:

?RCS: Revision 3.0.1.4 1995/07/25 14:14:54 ram

?RCS: patch56: added <asm/signal.h> lookup for linux  
?RCS:  
?RCS: Revision 3.0.1.3 1995/05/12 12:24:11 ram  
?RCS: patch54: now looks for <linux/signal.h> too (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/06/20 07:06:57 ram  
?RCS: patch30: final echo was missing to close awk-printed string  
?RCS:  
?RCS: Revision 3.0.1.1  
1994/05/06 15:17:55 ram  
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:47 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:sig\_name sig\_name\_init sig\_num sig\_num\_init sig\_count sig\_size: \  
awk Signal Oldconfig rm  
?MAKE: -pick add \$@ %<  
?S:sig\_name:  
?S: This variable holds the signal names, space separated. The leading  
?S: SIG in signal name is removed. A ZERO is prepended to the  
?S: list. This is currently not used.  
?S:.  
?S:sig\_name\_init:  
?S: This variable holds the signal names, enclosed in double quotes and  
?S: separated by commas, suitable for use in the SIG\_NAME definition  
?S: below. A "ZERO" is prepended to the list, and the list is  
?S: terminated with a plain 0. The leading SIG in signal names  
?S: is removed. See sig\_num.  
?S:.  
?S:sig\_num:  
?S: This variable holds the signal numbers, space separated. A ZERO is  
?S: prepended to the list (corresponding to the fake SIGZERO), and  
?S: the list is terminated  
?S: with a 0. Those numbers correspond to  
?S: the value of the signal listed in the same place within the  
?S: sig\_name list.  
?S:.  
?S:sig\_num\_init:  
?S: This variable holds the signal numbers, enclosed in double quotes and  
?S: separated by commas, suitable for use in the SIG\_NUM definition  
?S: below. A "ZERO" is prepended to the list, and the list is  
?S: terminated with a plain 0.  
?S:.  
?S:sig\_count (sig\_name.U):  
?S: This variable holds a number larger than the largest valid  
?S: signal number. This is usually the same as the NSIG macro.  
?S:.

?S:sig\_size:  
 ?S: This variable contains the number of elements of the sig\_name  
 ?S: and sig\_num arrays, excluding the final NULL entry.  
 ?S:.  
 ?C:SIG\_NAME:  
 ?C: This symbol contains a list of signal names in order of  
 ?C: signal number. This is intended  
 ?C: to be used as a static array initialization, like this:  
 ?C: char \*sig\_name[] = { SIG\_NAME };  
 ?C: The signals in the list are separated with commas, and each signal  
 ?C: is surrounded by double  
 quotes. There is no leading SIG in the signal  
 ?C: name, i.e. SIGQUIT is known as "QUIT".  
 ?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,  
 ?C: etc., where nn is the actual signal number (e.g. NUM37).  
 ?C: The signal number for sig\_name[i] is stored in sig\_num[i].  
 ?C: The last element is 0 to terminate the list with a NULL. This  
 ?C: corresponds to the 0 at the end of the sig\_num list.  
 ?C:.  
 ?C:SIG\_NUM:  
 ?C: This symbol contains a list of signal numbers, in the same order as the  
 ?C: SIG\_NAME list. It is suitable for static array initialization, as in:  
 ?C: int sig\_num[] = { SIG\_NUM };  
 ?C: The signals in the list are separated with commas, and the indices  
 ?C: within that list and the SIG\_NAME list match, so it's easy to compute  
 ?C: the signal name from a number or vice versa at the price of a small  
 ?C: dynamic linear lookup.  
 ?C: Duplicates are allowed, but are moved to the end of the list.  
 ?C: The signal number corresponding to sig\_name[i] is sig\_number[i].  
 ?C: if (i  
 < NSIG) then sig\_number[i] == i.  
 ?C: The last element is 0, corresponding to the 0 at the end of  
 ?C: the sig\_name list.  
 ?C:.  
 ?C:SIG\_COUNT:  
 ?C: This variable contains a number larger than the largest  
 ?C: signal number. This is usually the same as the NSIG macro.  
 ?C:.  
 ?C:SIG\_SIZE:  
 ?C: This variable contains the number of elements of the sig\_name  
 ?C: and sig\_num arrays, excluding the final NULL entry.  
 ?C:.  
 ?H:#define SIG\_NAME \$sig\_name\_init /\*\*/  
 ?H:#define SIG\_NUM \$sig\_num\_init /\*\*/  
 ?H:#define SIG\_COUNT \$sig\_count /\*\*/  
 ?H:#define SIG\_SIZE \$sig\_size /\*\*/  
 ?H:.  
 ?T:i doinit



```

?F:!= !signal_cmd
?X: signal.cmd creates a file signal.lst which has two columns:
?X: NAME number, e.g.
?X: HUP 1
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*) case "$sig_num_init" in
  |*,*) doinit=yes ;;
  esac ;;
esac
case "$doinit" in
yes)
echo "Generating a list of signal names and
numbers..." >&4
./signal_cmd
sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
sig_name=`$awk 'BEGIN { printf "ZERO " }
!/^NSIG/ { printf "%s ", $1 }' signal.lst`
sig_num=`$awk 'BEGIN { printf "0 " }
!/^NSIG/ { printf "%d ", $2 }' signal.lst`
sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
!/^NSIG/ { printf "\"%s\", ", $1 }
END { printf "0\n" }' signal.lst`
sig_num_init=`$awk 'BEGIN { printf "0, " }
!/^NSIG/ { printf "%d, ", $2 }
END { printf "0\n" }' signal.lst`
;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
for (i = 1; i <= NF; i++) {
name = "SIG" $i " "
linelen = linelen + length(name)
if (linelen > 70) {
printf "\n"
linelen = length(name)
}
printf "%s", name
}
printf "\n"
}'

```

```
sig_size=`echo $sig_name | awk '{print NF}'`  
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sig_name.U
```

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?RCS:

?MAKE:d\_nl\_langinfo: Inlibc i\_langinfo

?MAKE: -pick add \$@ %<

?S:d\_nl\_langinfo:

?S: This variable conditionally defines the HAS\_NL\_LANGINFO symbol, which

?S: indicates to the C program that the nl\_langinfo() routine is available.

?S:.

?C:HAS\_NL\_LANGINFO:

?C: This symbol, if defined, indicates that the nl\_langinfo routine is

?C: available to return local data. You will also need <langinfo.h>

?C: and therefore I\_LANGINFO.

?C:.

?H:#\$d\_nl\_langinfo HAS\_NL\_LANGINFO /\*\*/

?H:.

?LINT:set d\_nl\_langinfo

?LINT:use i\_langinfo

: see if nl\_langinfo exists

set nl\_langinfo d\_nl\_langinfo

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_nl_langinfo.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysun.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:  
?RCS: \$Log: i\_sysun.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:42 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit looks wether <sys/un.h> is available or not  
?X:  
?MAKE:i\_sysun: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_sysun:  
?S: This variable conditionally defines I\_SYS\_UN, which indicates  
?S: to the C program that it should include <sys/un.h> to get UNIX  
?S: domain socket definitions.  
?S:.  
?C:I\_SYS\_UN:  
?C: This symbol, if defined, indicates  
to the C program that it should  
?C: include <sys/un.h> to get UNIX domain socket definitions.  
?C:.  
?H:#\$i\_sysun I\_SYS\_UN /\*\*/  
?H:.  
?LINT:set i\_sysun  
: see if this is a sys/un.h system  
set sys/un.h i\_sysun  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_sysun.U

No license file was found, but licenses were detected in source scan.

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?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS:  
?MAKE:d\_dir\_dd\_fd: Compile cat rm\_try Setvar i\_dirent i\_stdlib  
?MAKE: -pick add \$@ %<  
?S:d\_dir\_dd\_fd (d\_dir\_dd\_fd.U):  
?S: This variable conditionally defines the HAS\_DIR\_DD\_FD symbol, which  
?S: indicates that the DIR directory stream type contains a member  
?S: variable called dd\_fd.  
?S:.

?C:HAS\_DIR\_DD\_FD:

?C: This symbol, if defined, indicates that the the DIR\* dirstream

?C: structure contains a member variable named dd\_fd.

?C:.

?H:#\$d\_dir\_dd\_fd HAS\_DIR\_DD\_FD /\*\*/

?H:.

?LINT:set d\_dir\_dd\_fd

: Look for DIR.dd\_fd

case "\$i\_dirent"

in

"\$define")

echo "Checking to see if DIR has a dd\_fd member variable" >&4

\$cat >try.c <<EOCP

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include <stdlib.h>

#endif

#include <dirent.h>

int main() {

DIR dir;

dir.dd\_fd = 1;

return 0;

}

EOCP

val=\$undef

set try

if eval \$compile; then

echo "Yes, it does."

val="\$define"

else

echo "No, it does not."

val="\$undef"

fi

::

\*)

echo "You don't have a <dirent.h>, so not checking for dd\_fd." >&4

val="\$undef"

::

esac

set d\_dir\_dd\_fd

eval \$setvar

\$rm\_try

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_dir\_dd\_fd.U

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```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:20:07 ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
?C:I_DLD:
?C: This symbol, if defined, indicates that <dld.h>
exists and should
?C: be included before using GNU dynamic loading features.
?C:.
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_dld.U
```

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```
?RCS: $Id: dlsrc.U,v$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
```

```

?RCS:
?RCS: $Log: dlex.t,U,v $
?RCS:
?X: hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X: To create a shared library, you must compile ALL source files in the
?X: library with +z (or possibly +Z if the library is whopping huge),
?X: then link the library with -b. Example:
?X: cc -c +z module_a.c
?X: cc -c +z module_b.c
?X: ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlex: \
  Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlex:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
  $cat <<
  EOM

```

On a few systems, the dynamically loaded modules that perl generates and uses will need a different extension than shared libs. The default will probably be appropriate.

```

EOM
case "$dlex" in
") dflt="$so" ;;
*) dflt="$dlex" ;;
esac
rp='What is the extension of dynamically loaded modules'
./myread
dlex="$ans"
;;
*)
dlex="none"
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/dlex.t.U

```

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```
?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:07:14 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
?S: to operate on a symbolic link (instead of following
the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented. That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary. The GNU libc
?X: macros are found in <gnu/stubs.h>. You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first. <assert.h> is assumed to exist on every system,
?X: which is why it's used here. Any GNU libc header file will include
```

?X: the stubs macros. If either \_\_stub\_NAME or \_\_stub\_\_NAME is defined,

?X: then the function doesn't actually exist.

Tests using <assert.h> work

?X: on every system around.

?X:

?X: The declaration of FOO is there to override builtin prototypes for

?X: ANSI C functions.

?X:

?X: I really ought to enhance the inlibc test to check for this, but

?X: I don't have time now. --A.D. 5/1998

?X:

?X: Unfortunately, this trick fails under clang++-7. Apparently to

?X: cover both the stub issue and clang's requirements, we need to do

?X: a compile and run test. -- A.D. 8/2019

?X:

```
$cat > try.c <<EOCP
```

```
#include <pwd.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#$i_unistd I_UNISTD
```

```
#ifdef I_UNISTD
```

```
# include <unistd.h>
```

```
#endif
```

```
int main(int argc, char *argv[])
```

```
{
```

```
  if (lchown("./try.c", -1, getgid()) == -1) {
```

```
    exit(EXIT_FAILURE);
```

```
  }
```

```
  exit(EXIT_SUCCESS);
```

```
}
```

```
EOCP
```

```
set try
```

```
if eval $compile && ./try; then
```

```
  $echo "lchown() found." >&4
```

```
  val="$define"
```

```
else
```

```
  $echo "lchown() NOT found." >&4
```

```
  val="$undef"
```

```
fi
```

```
set d_lchown
```

```
eval $setvar
```

```
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_lchown.U
```

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?RCS:

?MAKE:d\_ erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ erf:

?S: This variable conditionally defines the HAS\_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS\_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d\_ erf HAS\_ERF /\*\*/

?H:.

?LINT:set d\_ erf

: see if erf exists

set erf d\_ erf

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_ erf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Oldconfig.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:06:39 ram

?RCS: patch61: added support for src.U

?RCS: patch61: new OSNAME define

?RCS: patch61: can now sense new OSes

?RCS:

?RCS: Revision 3.0.1.9 1995/07/25 13:40:51 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.8 1995/05/12 12:04:18 ram

?RCS: patch54: config.sh reload logic now knows about new -K switch

?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)

?RCS: patch54: added MachTen detection

(ADO)  
?RCS:  
?RCS: Revision 3.0.1.7 1995/02/15 14:13:41 ram  
?RCS: patch51: adapted osvers computation for AIX (ADO)  
?RCS:  
?RCS: Revision 3.0.1.6 1995/01/30 14:27:15 ram  
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable  
?RCS: patch49: update code for myuname changed (WED)  
?RCS:  
?RCS: Revision 3.0.1.5 1995/01/11 15:15:36 ram  
?RCS: patch45: added quotes around the INITPROG variable (ADO)  
?RCS: patch45: allows variable overriding after config file loading  
?RCS:  
?RCS: Revision 3.0.1.4 1994/10/29 15:57:05 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS: patch36: merged with the version used for perl5's Configure (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/05/06 14:24:17 ram  
?RCS: patch23: added support for osf1 hints  
?RCS: patch23: new support for solaris and i386 systems (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/01/24 14:05:02 ram  
?RCS: patch16: added post-processing on myuname for Xenix targets  
?RCS: patch16: message proposing config.sh  
defaults made consistent  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 15:56:32 ram  
?RCS: patch10: force use of config.sh when -d option is used (WAD)  
?RCS: patch10: complain about non-existent hint files (WAD)  
?RCS: patch10: added Options dependency for fastread variable  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:12 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit tries to remember what we did last time we ran Configure, mostly  
?X: for the sake of setting defaults.  
?X:  
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \  
Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \  
rm lns tr n c contains targetarch  
?MAKE: -pick wipe \$@ %<  
?S:myuname:  
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,  
?S: pseudo variables assignments in the output are stripped, thank you. The  
?S: whole thing is then lower-cased.  
?S:.  
?S:hint:

?S: Gives the type of hints used for previous answers. May be one of  
 ?S: "default",  
 "recommended" or "previous".  
 ?S:.  
 ?S:osname:  
 ?S: This variable contains the operating system name (e.g. sunos,  
 ?S: solaris, hpux, etc.). It can be useful later on for setting  
 ?S: defaults. Any spaces are replaced with underscores. It is set  
 ?S: to a null string if we can't figure it out.  
 ?S:.  
 ?S:osvers:  
 ?S: This variable contains the operating system version (e.g.  
 ?S: 4.1.3, 5.2, etc.). It is primarily used for helping select  
 ?S: an appropriate hints file, but might be useful elsewhere for  
 ?S: setting defaults. It is set to " if we can't figure it out.  
 ?S: We try to be flexible about how much of the version number  
 ?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the  
 ?S: same for this package, hints files might just be os\_4.0 or  
 ?S: os\_4.1, etc., not keeping separate files for each little release.  
 ?S:.  
 ?C:OSNAME:  
 ?C: This symbol contains the name of the operating system, as determined  
 ?C: by Configure. You shouldn't rely on it too much; the specific  
 ?C: feature  
 tests from Configure are generally more reliable.  
 ?C:.  
 ?C:OSVERS:  
 ?C: This symbol contains the version of the operating system, as determined  
 ?C: by Configure. You shouldn't rely on it too much; the specific  
 ?C: feature tests from Configure are generally more reliable.  
 ?C:.  
 ?H:#define OSNAME "\$osname" /\*\*/  
 ?H:#define OSVERS "\$osvers" /\*\*/  
 ?H:.  
 ?F:!config.sh  
 ?T:tmp tmp\_n tmp\_c tmp\_sh file  
 ?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname  
 ?T:tans \_ isesix INITPROG DJGPP has\_uname  
 ?D:osname="  
 ?LINT:change n c sh  
 ?LINT:extern hostarch  
 ?LINT:change hostarch  
 : Determine the name of the machine  
 myuname=`\$uname -a 2>/dev/null`  
 \$test -z "\$myuname" && myuname=`hostname 2>/dev/null`  
 ?X: Special mention for Xenix, whose 'uname -a' gives us output like this:  
 ?X: sysname=XENIX  
 ?X: nodename=whatever

```
?X: release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
's/^[^=]*=/' -e 's/\\/g' | \
./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y
```

```
: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
```

```
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
$sed -e 's://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
&& osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X: MachTen uname -a output looks like
?X: xxx 4 0.0 Macintosh
?X: MachTen /sbin/version output looks like
?X: MachTen 4.0 Mon Aug 28 10:18:00 1995
?X: MachTen 3.x had the 'version' command in /usr/etc/version.
osname=machten
if $test -x /sbin/version; then
osvers=`/sbin/version | $awk '{print $2}' |
$sed -e 's/[A-Za-z]$/'`
elif $test -x /usr/etc/version; then
osvers=`/usr/etc/version | $awk '{print $2}' |
$sed -e 's/[A-Za-z]$/'`
else
osvers="$2.$3"
fi
fi
$test -f /sys/posix.dll &&
$test -f /usr/bin/what &&
```

```

set X `usr/bin/what /sys/posix.dll` &&
$test "$3" = UWIN &&
osname=uwin &&
osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
set X $myuname
shift
case "$5" in
fps*) osname=fps ;;
mips*)
case "$4"
in
umips) osname=umips ;;
*) osname=mips ;;
esac;;
[23]100) osname=mips ;;
next*) osname=next ;;
?X: Interactive Unix.
i386*)
tmp=`/bin/uname -X 2>/dev/null|awk '3\,2v[45]/{ print $(NF) }'`
if $test "$tmp" != "" -a "$3" = "3.2" -a -f /etc/systemid; then
osname='sco'
osvers=$tmp
elif $test -f /etc/kconfig; then
osname=isc
if $test "$lns" = "$ln -s"; then
osvers=4
elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
osvers=3
elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
osvers=2
fi
fi
tmp=""
;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X: $1 is the "dos flavor" (need not be "ms-dos").
?X: $2 is the node name
?X: $3 and $4 are version/subversion
?X: $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
?X: using variants
of pc* in $5.)
?X: The "DJGPP" environment variable is always set when djgpp is active.

```

```

pc*)
if $test -n "$DJGPP"; then
  osname=dos
  osvers=djgpp
fi
;;
esac
case "$1" in
aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X: AIX foo 1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below). In 4.1,
?X: it puts out something like 4.1.1.0
tmp=`( oslevel) 2>/dev/null || echo "not found") 2>&1`
case "$tmp" in
'not found') osvers="$4"."$3" ;;
'<3240'|<>3240') osvers=3.2.0 ;;
'=3240'|>3240'|<3250'|<>3250') osvers=3.2.4 ;;
'=3250'|>3250') osvers=3.2.5 ;;
*) osvers=$tmp;;
esac
;;
bsd386) osname=bsd386
osvers=`$uname -r`
;;
cygwin*) osname=cygwin
osvers="$3"
;;
*dc.osx) osname=dcosx
osvers="$3"
;;
dnix) osname=dnix
osvers="$3"
;;
domainos) osname=apollo
osvers="$3"
;;
dgux)
osname=dgux
osvers="$3"
;;
?X: uname -a returns
?X: DYNIX/ptx xxx 4.0 V4.1.2 i386
dynixptx*) osname=dynixptx
osvers=`echo "$4"|sed 's/^v//`
;;

```

```

freebsd) osname=freebsd
    osvers="$3" ;;
genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X: Thanks to Graham Barr.  --AD 6/30/1998
hp*) osname=hpux
    osvers=`echo "$3" | $sed 's,.*\.[0-9]*\.[0-9]*\),\1,'`
    ;;
irix*) osname=irix
    case "$3" in
    4*) osvers=4 ;;
    5*) osvers=5 ;;
    *) osvers="$3" ;;
    esac
    ;;
linux) osname=linux
    case "$3" in
    *) osvers="$3" ;;
    esac
    ;;
MiNT) osname=mint
    ;;
netbsd*) osname=netbsd
    osvers="$3"
    ;;
news-os) osvers="$3"
    case "$3" in
    4*) osname=newsos4 ;;
    *) osname=newsos ;;
    esac
    ;;
next*) osname=next ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
    osvers="$3"
    ;;
POSIX-BC | posix-bc
) osname=posix-bc
    osvers="$3"
    ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
    osvers="$3"
    ;;
qnx) osname=qnx
    osvers="$4"

```

```

;;
solaris) osname=solaris
case "$3" in
5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
*) osvers="$3" ;;
esac
;;
sunos) osname=sunos
case "$3" in
5*) osname=solaris
osvers=`echo $3 | $sed 's/^5/2/g'` ;;
*) osvers="$3" ;;
esac
;;
titanos) osname=titanos
case "$3" in
1*) osvers=1 ;;
2*) osvers=2 ;;
3*) osvers=3 ;;
4*) osvers=4 ;;
*) osvers="$3" ;;
esac
;;
ultrix) osname=ultrix
osvers="$3"
;;
osf1|mips+) case "$5" in
alpha)
?X: DEC OSF/1 myuname -a output looks like: osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
osname=dec_osf
?X: sizer knows the minor minor version: the letter
osvers=`sizer -v | awk '{print $3}' | \
.tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
case "$osvers" in
[1-9].[0-9]*) ;;
*) osvers=`echo
"$3" | sed 's/^[xvt]//'` ;;
esac
;;
hp*) osname=hp_osf1 ;;
mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
esac
;;
unixware) osname=svr5
osvers="$4"
;;

```



```

uts) osname=uts
osvers="$3"
;;
vos) osvers="$3"
;;
$2) case "$osname" in
*isc*) ;;
*freebsd*) ;;
svr*)
: svr4.x or possibly later
case "svr$3" in
${osname}*)
osname=svr$3
osvers=$4
;;
esac
case "$osname" in
svr4.0)
: Check for ESIX
if $test -f /stand/boot ; then
eval ` $grep '^INITPROG=[a-z/0-9]*$' /stand/boot `
if $test -n "$INITPROG" -a -f "$INITPROG"; then
isesix=`strings -a $INITPROG | \
$grep 'ESIX SYSTEM V/386 Release 4.0`
if $test -n "$isesix"; then
osname=esix4
fi
fi
fi
;;
esac
;;
*) if $test -f /etc/systemid; then
osname=sco
set `echo $3 | $sed 's/\./ /g` $4
if $test -f $src/hints/sco_$1_$2_$3.sh; then
osvers=$1.$2.$3
elif $test
-f $src/hints/sco_$1_$2.sh; then
osvers=$1.$2
elif $test -f $src/hints/sco_$1.sh; then
osvers=$1
fi
else
case "$osname" in
") : Still unknown. Probably a generic Sys V.
osname="sysv"
osvers="$3"

```

```

;;
esac
fi
;;
esac
;;
*) case "$osname" in
") : Still unknown. Probably a generic BSD.
osname="$1"
osvers="$3"
;;
esac
;;
esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
if $test -f /vmunix -a -f $src/hints/news_os.sh; then
(what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
if $contains news-os UU/kernel.what >/dev/null 2>&1; then
osname=news_os
fi
$rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
elif $test -d c:.; then
set X $myuname
osname=os2
osvers="$5"
fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
")
if test -f ../config.sh; then
if $contains
myuname= ../config.sh >/dev/null 2>&1; then
eval "`$grep myuname= ../config.sh`"
fi
if test "X$myuname" = "X$newmyuname"; then
dflt=y
fi
fi
;;
*) dflt=y;;

```

esac

: Get old answers from config file if it was generated on the same system

hint=default

if \$test -f ../config.sh; then

echo " "

rp="I see a config.sh file. Shall I use it to set the defaults?"

. ./myread

case "\$ans" in

n\*[N\*]) echo "OK, I'll ignore it."

mv ../config.sh ../config.sh.old

myuname="\$newmyuname"

::

\*) echo "Fetching default answers from your old config.sh file..." >&4

tmp\_n="\$n"

tmp\_c="\$c"

tmp\_sh="\$sh"

. ../config.sh

cp ../config.sh .

n="\$tmp\_n"

c="\$tmp\_c"

hint=previous

::

esac

fi

?X: remember, case indentation is wrong--RAM

::

\*)

echo " "

echo "Fetching default answers from \$config\_sh..." >&4

tmp\_n="\$n"

tmp\_c="\$c"

tmp\_sh="\$sh"

cd ..

?X: preserve symbolic links, if any

cp \$config\_sh config.sh 2>/dev/null

chmod +w config.sh

. ./config.sh

cd UU

cp ../config.sh

.

n="\$tmp\_n"

c="\$tmp\_c"

hint=previous

::

esac

?X: Older versions did not always set \$sh.

case "\$sh" in

```
) sh="$tmp_sh" ;;
esac
$test "$soverride" && . ./optdef.sh
```

```
: Restore computed paths
for file in $loclist $strylist; do
  eval $file="\$_$file"
done
```

```
./checkcc
?X: Cross-compiling support
case "$targetarch" in
*) ;;
*) hostarch=$osname
  osname=`echo $targetarch|sed 's,^[^-]*-,`
  osvers=""
  ;;
esac
```

```
@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
  $cat <<EOM
```

First time through, eh? I have some defaults handy for some systems that need some extra help getting the Configure answers right:

```
EOM
(cd $src/hints; ls -C *.sh) | $sed 's/\./ /g' >&4
dflt=""
```

```
: Now look for a hint file osname_osvers, unless one has been
: specified already.
```

```
case "$hintfile" in
"| ' )
  file=`echo "${osname}_${osvers}"
| $sed -e 's%\.\%_g' -e 's%_$$%'`
: Also try without trailing minor version numbers.
xfile=`echo $file | $sed -e 's%_[^_]*$%'`
xxfile=`echo $xfile | $sed -e 's%_[^_]*$%'`
xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%'`
xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%'`
case "$file" in
") dflt=none ;;
*) case "$osvers" in
```

```

") dflt=$file
;;
*) if $test -f $src/hints/$file.sh ; then
    dflt=$file
  elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
  elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
  elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
  elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
  elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
  else
    dflt=none
  fi
;;
esac
;;
esac
if $test -f Policy.sh ; then
  case "$dflt" in
    *Policy*) ;;
    none) dflt="Policy" ;;
    *) dflt="Policy $dflt" ;;
  esac
fi
;;
*)
  dflt=`echo
$hintfile | $sed 's/\.sh$/^'
  ;;
esac

```

```

if $test -f Policy.sh ; then
  $cat <<EOM

```

There's also a Policy hint file available, which should make the site-specific (policy) questions easier to answer.

EOM

```

fi

```

```

$cat <<EOM

```

You may give one or more space-separated answers, or "none" if appropriate.

A well-behaved OS will have no hints, so answering "none" or just "Policy"

is a good thing. DO NOT give a wrong version or a wrong OS.

EOM

```
rp="Which of these apply, if any?"
. UU/myread
tans=$ans
for file in $tans; do
if $test X$file = XPolicy -a -f Policy.sh; then
. Policy.sh
$cat Policy.sh >> UU/config.sh
elif $test -f $src/hints/$file.sh; then
. $src/hints/$file.sh
$cat $src/hints/$file.sh >> UU/config.sh
elif $test X"$tans" = X -o X"$tans" = Xnone ; then
: nothing
else
: Give one chance to correct a possible typo.
echo "$file.sh does not exist"
dflt=$file
rp="hint to use instead?"
. UU/myread
for file in $ans; do
if $test -f "$src/hints/$file.sh";
then
. $src/hints/$file.sh
$cat $src/hints/$file.sh >> UU/config.sh
elif $test X$ans = X -o X$ans = Xnone ; then
: nothing
else
echo "$file.sh does not exist -- ignored."
fi
done
fi
done

hint=recommended
: Remember our hint file for later.
if $test -f "$src/hints/$file.sh" ; then
hintfile="$file"
else
hintfile=""
fi
fi
cd UU
?X: From here on, we must use $src instead of $src

@end
```

: Process their -A options

./posthint.sh

@if osname || osvers

: Ask them to confirm the OS name

cat << EOM

Configure uses the operating system name and version to set some defaults.

The default value is probably right if the name rings a bell. Otherwise, since spelling matters for me, either accept the default or answer "none" to leave it blank.

EOM

@end

@if osname

case "\$osname" in

"| ")

case "\$hintfile" in

"| |none) dflt=none ;;

\*) dflt=`echo \$hintfile | \$sed -e 's/\.sh\$//' -e 's/\_.\*\$//'^` ;;

esac

::

\*) dflt="\$osname" ;;

esac

rp="Operating

system name?"

./myread

case "\$ans" in

none) osname=" ;;

\*) osname=`echo "\$ans" | \$sed -e 's/[ | ]\*/\_/g' | ./tr '[A-Z]' '[a-z]'^` ;;

esac

@end

@if osvers

@if osname

echo " "

@end

case "\$osvers" in

"| ")

case "\$hintfile" in

"| |none) dflt=none ;;

\*) dflt=`echo \$hintfile | \$sed -e 's/\.sh\$//' -e 's/^[^\_]\*//'^`

dflt=`echo \$dflt | \$sed -e 's/^\\_/' -e 's/\_./g'^`

case "\$dflt" in

"| ") dflt=none ;;

esac

::

esac

::

```

*) dflt="$osvers" ;;
esac
rp="Operating system version?"
./myread
case "$ans" in
none) osvers="" ;;
*) osvers="$ans" ;;
esac

@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Oldconfig.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:44:25 ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1 1995/07/25 14:00:24 ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:16 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.

```



```

?H:#$d_sgnchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgnchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
char c = 0;

c--;
exit(c >= 0);
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
val="$define"
echo "It certainly can."
else
val="$undef"
echo "It can't. I'll have to make some things type short."
fi
set d_sgnchr
eval $setvar
$rm -f try*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_sgnchr.U

```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_trunc:

?S: This variable conditionally defines the HAS\_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS\_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d\_trunc HAS\_TRUNC /\*\*/

?H:.

?LINT:set d\_trunc

: see if trunc exists

set trunc d\_trunc

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_trunc.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_select.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_select.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_select: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_select:

?S: This variable conditionally defines HAS\_SELECT if select() is

?S: available to select active file descriptors. A <sys/time.h>

?S: inclusion may be necessary for the timeout field.

?S:.

?C:HAS\_SELECT:

?C: This symbol, if defined, indicates that the select routine is

?C: available

to select active file descriptors. If the timeout field

?C: is used, <sys/time.h> may need to be included.

?C:.

?H:#\$d\_select HAS\_SELECT /\*\*/

?H:.

?LINT:set d\_select

: see if select exists

set select d\_select

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/dist/U/d\_select.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ftello: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d\_ftello:

?S: This variable conditionally defines the HAS\_FTELLO symbol, which

?S: indicates to the C program that the ftello() routine is available.

?S:.

?C:HAS\_FTELLO:

?C: This symbol, if defined, indicates that the ftello routine is

?C: available to ftell beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d\_ftello HAS\_FTELLO /\*\*/

?H:.

?LINT:set d\_ftello

: see if ftello exists

set ftello d\_ftello

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use ftell.)" ;;

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_ftello.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: i\_malloc.U,v \$

?RCS: Revision 3.1 2003/01/21 18:51:51 merijn

?RCS: Moved to modified: Ihdr replaced with Compile

```

?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:21 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
    echo "<malloc.h> found." >&4
    val="$define"
else
    echo "<malloc.h> NOT found." >&4
    val="$undef"
fi
$rm_try
set i_malloc
eval $setvar

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/i_malloc.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_sysuio.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2 1995/05/12 12:11:21 ram
?RCS: patch54: made sure cc and cflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:10:50 ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
```

```

?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:47 ram
?RCS: Baseline
for dist 3.0 netwide release.
?RCS:
?X:
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S: 0 = ok
?S: 1 = couldn't cast < 0
?S: 2 = couldn't cast >= 0x80000000
?S: 4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C: 0 = ok
?C: 1 = couldn't cast < 0
?C: 2 = couldn't cast >= 0x80000000
?C: 4 = couldn't
cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT /**/
?H:#define CASTFLAGS $castflags /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB

```

```

#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
{
double f;
unsigned long along;
unsigned int aint;
unsigned short ashort;
int result = 0;
char str[16];

/* Frustrate gcc-2.7.2's optimizer which failed this test with
   a direct f = -123. assignment. gcc-2.8.0 reportedly
   optimized the whole file away
*/
/* Store the number in a writable
string for gcc to pass to
scanf under HP-UX.
*/
sprintf(str, "-123");
sscanf(str, "%lf", &f); /* f = -123.; */

signal(SIGFPE, blech);
along = (unsigned long)f;
aint = (unsigned int)f;
ashort = (unsigned short)f;
if (along != (unsigned long)-123)
result |= 1;
if (aint != (unsigned int)-123)
result |= 1;
if (ashort != (unsigned short)-123)
result |= 1;
sprintf(str, "1073741824.");
sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
f = f + f;
along = 0;
along = (unsigned long)f;
if (along != 0x80000000)
result |= 2;
f -= 1.;
along = 0;

```

```

along = (unsigned long)f;
if (along != 0x7ffffff)
    result |= 1;
f += 2.;
along = 0;
along = (unsigned long)f;
if (along != 0x80000001)
    result |= 2;
if (result)
    exit(result);

```

?X:

?X: The following is a test for Interactive Unix Version 4.1, which

?X: has an 'improved' compiler which can correctly cast negative

?X: floats in expression lists, but apparently not in argument lists.

?X: Contributed by Winfried Koenig

<win@incom.rhein-main.de>

?X:

```

signal(SIGFPE, blech_in_list);
sprintf(str, "123.");
sscanf(str, "%lf", &f); /* f = 123.; */
along = dummy_long((unsigned long)f);
aint = dummy_int((unsigned int)f);
ashort = dummy_short((unsigned short)f);
if (along != (unsigned long)123)
    result |= 4;
if (aint != (unsigned int)123)
    result |= 4;
if (ashort != (unsigned short)123)
    result |= 4;
exit(result);

```

}

EOCP

set try

if eval \$compile\_ok; then

\$run ./try 2>/dev/null

castflags=\$?

else

echo "(I can't seem to compile the test program--assuming it can't)"

castflags=7

fi

case "\$castflags" in

0) val="\$define"

echo "Yup, it can."

::

\*) val="\$undef"

echo "Nope, it can't."

::



```
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_castneg.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_rename.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:06:54 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_rename: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_rename:
```

```
?S: This variable conditionally defines the HAS_RENAME symbol, which
```

```
?S: indicates to the C program that the rename() routine is available
```

```
?S: to rename files.
```

```
?S:.
```

```
?C:HAS_RENAME (RENAME):
```

```
?C: This symbol, if defined, indicates that the rename routine is available
```

```
?C: to rename files.
```

```
Otherwise you should do the unlink(), link(), unlink()
```

```
?C: trick.
```

```
?C:.
```

```
?H:#$d_rename HAS_RENAME /**/
```

```
?H:.
```

```
?LINT:set d_rename
```

```
: see if rename exists
```

```
set rename d_rename
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_rename.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:44:29 ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
echo 'sigaction() found.' >&4
val="$define"
else
echo 'sigaction NOT found.' >&4
val="$undef"
fi
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc. This compile test
?X: will fail then. <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
```

```

#include <sys/types.h>
#include <signal.h>
int main()
{
    struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
:
else
    echo "But you don't seem to have a useable struct sigaction." >&4
    val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sigaction.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: myhostname.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:15:55 ram

?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:25:43 ram

?RCS: patch36: call ./xenix explicitly instead of relying on PATH

?RCS: patch36: now uses new Tr unit to convert to/from lowercase

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 07:06:20 ram

?RCS: patch30: now a little more clever for domain name guessing

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:18 ram

?RCS:

Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \

Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname

```

?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
    should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on. The domain must be appended to HOSTNAME to form a complete
?C: host name. The dot comes with MYDOMAIN, and need not be supplied by
?C: the program. If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname" /**/
?H:#define MYDOMAIN "$mydomain" /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
" "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
echo 'Maybe "hostname" will work...'
if tans=`sh -c hostname 2>&1` ; then
    myhostname=$tans
    phostname=hostname

```

```

cont="
fi
;;
*) cont=";;
esac
if $test "$cont"; then
if ./xenix; then
echo 'Oh, dear. Maybe "/etc/systemid" is the key...'
if tans=`cat /etc/systemid 2>&1` ; then
myhostname=$tans
phostname='cat /etc/systemid'
echo "Whadyaknow. Xenix always was a bit strange..."
cont="
fi
elif $test -r /etc/systemid; then
echo "(What is a non-Xenix system doing with /etc/systemid?)"
fi
fi
if $test "$cont"; then
echo 'No, maybe "uname -l" will work...'
if tans=`sh -c 'uname -l' 2>&1` ; then
myhostname=$tans
phostname='uname -l'
else
echo 'Strange. Maybe "uname -n" will work...'
if tans=`sh -c 'uname -n' 2>&1` ; then
myhostname=$tans
phostname='uname -n'
else
echo 'Oh well, maybe I can mine it out of whoami.h...'
if tans=`sh -c $contains' sysname $usrinc/whoami.h'
2>&1` ; then
myhostname=`echo "$tans" | $sed 's/^(.*)"/^1/^
phostname="sed -n -e ""'/sysname/s/^(.*)"/^1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
else
case "$myhostname" in
") echo "Does this machine have an identity crisis or something?"
phostname="";;
*)
echo "Well, you said $myhostname before..."
phostname='echo $myhostname';;
esac
fi
fi
fi
fi
case "$myhostname" in
") myhostname=noname ;;

```

```

esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
  dflt=y
  rp="Your host name appears to be "$myhostname"." Right?"
  . ./myread
  case "$ans" in
  y*) ;;
  *) myhostname="";;
  esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
  dflt="
  rp="Please type the (one word) name of your host:"
  . ./myread
  myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
  echo "(Normalizing case in your host name)"
  myhostname=`echo
$myhostname | ./tr '[A-Z]' '[a-z]`
  ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*,*)
  dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
  myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
  echo "(Trimming domain name from host name--host name is now $myhostname)"
  ;;
*) case "$mydomain" in
")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain

```

?X: name computation, or if none is done, right after the hostname computation.

?X:

```
{
```

?X: If we use NIS, try ypmatch.

```
test "X$hostcat" = "Xypcat hosts" &&
ypmatch "$myhostname" hosts 2>/dev/null \
  $sed -e 's/[ ]*#.*//; s/$/ /' > hosts && \
  $stest -s hosts
} || {
```

?X: Extract only

the relevant hosts, reducing file size,

?X: remove comments, insert trailing space for later use.

```
  $hostcat | $sed -n -e "s/[ ]*#.*//; s/$/ /"
  /[ ]$myhostname[ . ]p" > hosts
}
tmp_re="[ . ]"
$stest x`$awk "/[0-9].*[ ]$myhostname$tmp_re/ { sum++ }
  END { print sum }" hosts` = x1 || tmp_re="[ ]"
dflt=`$awk \
"/[0-9].*[ ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print "\\$i}" \
hosts | $sort | $uniq | \
  $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_]\)^1/p"
case `$echo X$dflt` in
X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
dflt=.
;;
```

?X: There is no /etc/hosts on os390

X.)

```
if $stest -f /etc/hosts; then
  echo "(You do not have fully-qualified names in /etc/hosts)"
else
  echo "(I cannot locate a hosts database anywhere)"
fi
;;
esac
```

```
case "$dflt" in
```

```
.)
```

```
  tans=`./loc resolv.conf X /etc /usr/etc`
  if $stest -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
```

?X: Look for either a search

or a domain directive.

```
  dflt=`$sed -n -e 's// /g' \
    -e 's/^search *([^\ ]*).*/1/p' $tans \
    | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
  case "$dflt" in
  .) dflt=`$sed -n -e 's// /g' \
    -e 's/^domain *([^\ ]*).*/1/p' $tans \
```

```

        | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
;;
esac
fi
;;
esac
case "$dflt" in
.) echo "(No help from resolv.conf either -- attempting clever guess)"
dflt=`sh -c domainname 2>/dev/null`
case "$dflt" in
") dflt='.';;
.nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*/'`;;
esac
;;
esac
case "$dflt${osname}" in
.os390)
file="//SYS1.TCPPARMS(TCPDATA)"
echo "(Attempting domain name extraction from $file)"
dflt=`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
;;
esac
case "$dflt" in
.) echo "(Lost all hope -- silly guess then)"
dflt='.nonet'
;;
esac
$rm -f hosts
;;
*) dflt="$mydomain";;
esac;;
esac
echo " "
rp="What is your domain name?"
.
./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
echo "(Normalizing case in your domain name)"

```



```

mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]`
;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
case ` $phostname | ./tr '[A-Z]' '[a-z]` in
$myhostname$mydomain|$myhostname) ;;
*)
case "$phostname" in
sed*)
echo "(That doesn't agree with your whoami.h file, by the way.)"
;;
*)
echo "(That doesn't agree with your $phostname command, by the way.)"
;;
esac
;;
esac
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/myhostname.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2 1995/01/11 15:28:52 ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1 1993/12/15 08:21:17 ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist

```

?RCS:  
 ?RCS: Revision 3.0 1993/08/18 12:06:48 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?X:  
 This is the same as the dist version, except I don't bother  
 ?X: prompting people since it makes no difference for perl5,  
 ?X: and only confuses people.  
 ?X:  
 ?X: The Loc unit is wanted to get the definition of all the locating variables.  
 ?X:  
 ?MAKE:d\_portable: Loc Oldconfig  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_portable:  
 ?S: This variable conditionally defines the PORTABLE symbol, which  
 ?S: indicates to the C program that it should not assume that it is  
 ?S: running on the machine it was compiled on.  
 ?S:.  
 ?C:PORTABLE:  
 ?C: This symbol, if defined, indicates to the C program that it should  
 ?C: not assume that it is running on the machine it was compiled on.  
 ?C: The program should be prepared to look up the host name, translate  
 ?C: generic filenames, use PATH, etc.  
 ?C:.  
 ?H:#\$d\_portable PORTABLE /\*\*/  
 ?H:.  
 ?D:d\_portable="  
 : decide how portable to be. Allow command line overrides.  
 case "\$d\_portable" in  
 "\$undef") ;;  
 \*) d\_portable="\$define" ;;  
 esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_portable.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
 ?RCS:  
 ?RCS: You may redistribute only under the terms of the Artistic License,  
 ?RCS: as specified in the README file that comes with the distribution.  
 ?RCS: You may reuse parts of this distribution only within the terms of  
 ?RCS: that same Artistic License; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:

?RCS: \$Log: Instruct.U,v \$  
?RCS: Revision 3.0.1.3 1997/02/28 15:02:55 ram  
?RCS: patch61: logname / whoami sequence rewritten to use case  
?RCS:  
?RCS: Revision 3.0.1.2 1995/02/15 14:11:34 ram  
?RCS: patch51: author name now appears at the end of the paragraph (WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1995/01/11 15:12:05 ram  
?RCS: patch45: now documents the & escape to turn -d on at the read prompt  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:04 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:

?X:

?X:

This unit spew out the directions that we want everyone to read. I try to  
?X: keep the first "pagefull" much less than a page since they don't know it  
?X: isn't going to go shooting off the top of the screen, and we don't want  
?X: to panic them yet.

?X:

?MAKE:Instruct: Begin Myread Configdir contains

?MAKE: -pick wipe \$@ %<

?T:user needman firsttime

: general instructions

needman=true

firsttime=true

user=`(logname) 2>/dev/null`

case "\$user" in

) user=`whoami 2>&1`;;

esac

if \$contains "^\$user\$" ../.config/instruct >/dev/null 2>&1; then

firsttime=false

echo " "

rp='Would you like to see the instructions?'

dflt=n

. ./myread

case "\$ans" in

[yY]\*) ;;

\*) needman=false;;

esac

fi

if \$needman; then

cat <<EOH

This installation shell script will examine your system and ask you questions to determine how the <PACKAGENAME> package should be installed. If you get stuck on a question, you may use a ! shell escape to start a subshell or execute a command. Many of the questions will have

default answers in square brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed to use the ~name construct to specify the login directory belonging to "name", even if you don't have a shell which knows about that. Questions where this is allowed will be marked "(~name ok)".

```
EOH
rp="
dfmt='Type carriage return to continue'
. ./myread
cat <<'EOH'
```

The prompter used in this script allows you to use shell variables and backticks in your answers. You may use \$1, \$2, etc... to refer to the words in the default answer, as if the default line was a set of arguments given to a script shell. This means you may also use \$\* to repeat the whole default line, so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm. If there is an error (e.g. an unmatched backtick), the default answer will remain unchanged and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'. This will bypass nearly all the questions and use the computed defaults (or the previous answers if there was already a config.sh file). Type 'Configure -h' for a list of options. You may also start interactively and then answer '& -d' at any prompt to turn on the non-interactive behaviour for the remainder of the execution.

```
EOH
. ./myread
cat <<EOH
```

Much effort has been expended to ensure that this shell script will run on any Unix system. If despite that it blows up on yours, your best bet is to edit Configure and run it again. If you can't run Configure for some reason, you'll have to generate a config.sh file by hand. Whatever problems you have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

- 1) it may do direct variable substitutions on some of the files included in this kit.
- 2) it builds a config.h file for inclusion in C programs. You may edit any of these

files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it currently. The easiest thing to do is to edit config.sh and rerun all the SH files. Configure will offer to let you do this before it runs the SH files.

EOH

?X: In case they played with the prompter...

```
dflt='Type carriage return to continue'
```

```
. ./myread
```

```
case "$firsttime" in
```

```
true) echo $user >>../.config/instruct;;
```

```
esac
```

```
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Instruct.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_tmpnam\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_tmpnam\_r tmpnam\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads extern\_C

?MAKE: -pick add \$@ %<

?S:d\_tmpnam\_r:

?S: This variable conditionally defines the HAS\_TMPNAM\_R symbol,

?S: which indicates to the C program that the tmpnam\_r()

?S: routine is available.

?S:.

?S:tmpnam\_r\_proto:

?S: This variable encodes the prototype of tmpnam\_r.

?S: It is zero if d\_tmpnam\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_tmpnam\_r

?S: is defined.

?S:.

?C:HAS\_TMPNAM\_R:

?C: This symbol, if defined, indicates that the tmpnam\_r routine

?C: is available to tmpnam re-entrantly.

?C:.

?C:TMPNAM\_R\_PROTO:

?C: This

```

symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
eval $inlibc
case "$d_tmpnam_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h "
case "$d_tmpnam_r_proto:$usethreads" in
":define") d_tmpnam_r_proto=define
set d_tmpnam_r_proto tmpnam_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_tmpnam_r_proto" in
define)
case "$tmpnam_r_proto" in
"|0) try='char* tmpnam_r(char*);'
./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
esac
case "$tmpnam_r_proto" in
"|0) d_tmpnam_r=undef
tmpnam_r_proto=0
echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
* ) case "$tmpnam_r_proto" in
REENTRANT_PROTO*) ;;
*) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
esac
d_tmpnam_r=undef
tmpnam_r_proto=0
;;
esac
;;
*) tmpnam_r_proto=0

```

```
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_tmpnam_r.U
```

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasfield string that is used internally

?X: by Configure to check if this system has a field for a

?X: particular struct (of if this system has a particular struct!)

?X:

?X: To use it, say something like:

?X: set d\_statblocks stat st\_blocks i\_sysstat sys/stat.h

?X: eval \$hasfield

?X: Or, for more complicated sets of headers, do something like

?X: hdrs="\$define sys/foo.h

?X: \$i\_sysbar sys/bar.h

?X: \$i\_syszot sys/zot.h

?X: \$i\_zappa zappa.h"

?X: set d\_statblocks stat st\_blocks \$hdrs

?X: eval \$hasfield

?X:

?MAKE:Hasfield: Setvar rm\_try test Compile

?MAKE: -pick add \$@ %<

?T:varname struct field

?V:hasfield

: Define hasfield macro for Configure internal use

```
hasfield='varname=$1;
```

```
struct=$2; field=$3; shift; shift; shift;
```

```
while $test $# -ge 2; do
```

```
case "$1" in
```

```
$define) echo "#include <$2>";;
```

```
esac ;
```

```
shift 2;
```

```
done > try.c;
```

```
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
```

```
set try;
```

```
if eval $compile; then
```

```
val="$define";
```

```
else
```

```
val="$undef";  
fi;  
set $varname;  
eval $setvar;  
$rm_try'
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/Hasfield.U
```

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?RCS: \$Id: i\_shadow.U,v \$

?RCS:

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?RCS:

?MAKE:i\_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_shadow:

?S: This variable conditionally defines the I\_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I\_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i\_shadow I\_SHADOW /\*\*/

?H:.

?LINT:set i\_shadow

: see if this is a shadow.h system

set shadow.h i\_shadow

eval \$inhdr

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_shadow.U
```

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?RCS:

?MAKE:d\_memrchr: Inlibc Hasproto d\_gnulibc

?MAKE: -pick add \$@ %<

?S:d\_memrchr:

?S: This variable conditionally defines the HAS\_MEMRCHR symbol, which

?S: indicates to the C program that the memchr() routine is available



```

?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memrchr_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
&& !defined(_GNU_SOURCE)'
xx3='# define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
  define) # see if memrchr exists
    set memrchr d_memrchr
    eval $inlibc
    ;;
  *) val=$undef
    set d_memrchr
    eval $setvar
    ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_memrchr.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

?RCS:

```

```

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```

```

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```

```

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```

```

?RCS: of the source tree for dist 4.0.

```

```

?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:24 ram
?RCS: Baseline for dist 3.0 worldwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled. It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
filename expanded
?S: at configuration time, for programs not wanting to deal with it at
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled. The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
?H:.
: locate news spool directory
case "$newsspool" in
")
dflt=/usr/spool/news
;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
./getfile
newsspool="$ans"
newsspoolexp="$ansexp"

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/newsspool.U

```

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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
?C: This symbol
?C: holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
"$define$define")
$cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
```

```
END
if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
else
  mmaptype='caddr_t'
fi
echo "and it returns ($mmaptype)." >&4
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_mmap.U
```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cf\_email.U,v \$

?RCS: Revision 3.0.1.1 1994/01/24 14:05:06 ram

?RCS: patch16: created

?RCS:

?RCS:

?MAKE:cf\_email: cat cf\_by test myhostname mydomain Oldconfig Myread

?MAKE: -pick add \$@ %<

?S:cf\_email:

?S: Electronic mail address of the person who ran Configure. This can be

?S: used by units that require the user's e-mail, like MailList.U.

?S:.

?T:cont maildomain

?LINT:extern MAILDOMAIN

: determine the e-mail address of the user who is running us

\$cat <<EOM

I need to get your e-mail address

in Internet format if possible, i.e.

something like user@host.domain. Please answer accurately since I have

no easy means to double check it. The default value provided below

is most probably close to reality but may not be valid from outside

your organization...

```

EOM
cont=x
while test "$cont"; do
case "$MAILDOMAIN" in
")
if $test -s /etc/mailname; then
maildomain=`$cat /etc/mailname`
else
maildomain="$myhostname$mydomain"
fi
;;
*) maildomain="$MAILDOMAIN";;
esac
case "$cf_email" in
") dflt="$cf_by@$maildomain";;
*) dflt="$cf_email";;
esac
rp='What is your e-mail address?'
./myread
cf_email="$ans"
case "$cf_email" in
*@*.**) cont="";;
*)
rp='Address does not look like an Internet one. Use it anyway?'
case "$fastread" in
yes) dflt=y ;;
*) dflt=n ;;
esac
./myread
case "$ans" in
y*) cont="";;
*) echo " " ;;
esac
;;
esac
done

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cf_email.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Config\_h.U,v \$  
?RCS: Revision 3.0.1.5 1997/02/28 14:57:43 ram  
?RCS: patch61: added support for src.U  
?RCS:  
?RCS: Revision 3.0.1.4 1995/09/25 09:10:49 ram  
?RCS: patch59: commented the purpose of the #un-def directive  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/30 14:25:39 ram  
?RCS: patch49: typo fixes in leading config.h comment (WED)  
?RCS:  
?RCS: Revision 3.0.1.2 1993/08/24 12:13:20 ram  
?RCS: patch3: added TOP as a local shell temporary variable  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/19 06:42:20  
ram  
?RCS: patch1: leading config.sh searching was not aborting properly  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:47 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This file ends up producing the config\_h.SH script, which is run to produce  
?X: the config.h file. The file ./Config\_h below contains all the ?H: lines  
?X: extracted out of all the units. Metaconfig itself adds the !GROK!THIS!.  
?X: Note that this code isn't included into Configure, but must be shipped with.  
?X:  
?X: For those who wish to know why the file is config\_h.SH instead of the more  
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one  
?X: 'dot' is allowed within the file name, as it is part of the "extension" of  
?X: the file. MS-DOG will not let you have two 'dots' because that would mean  
?X: two "extensions".  
?X:  
?MAKE:Config\_h: Id End Config\_sh Obsol\_h myuname cf\_time cf\_by package src  
?MAKE: -pick c\_h\_weed \$@ %<  
?MAKE: -pick c\_h\_weed \$@ ./Config\_h  
?MAKE: -pick  
c\_h\_weed \$@ ./Obsol\_h  
?T:CONFIG TOP  
?LINT:unclosed !GROK!THIS!  
?LINT:extern CONFIG\_H CONFIG\_SH  
?LINT:change CONFIG\_H CONFIG\_SH  
?LINT:nocomment  
case "\$CONFIG\_SH" in  
") CONFIG\_SH=config.sh;;

```

esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
if test -f $CONFIG_SH; then TOP=.;
elif test -f ../$CONFIG_SH; then TOP=..;
elif test -f ../../$CONFIG_SH; then TOP=../../;
elif test -f ../../../$CONFIG_SH; then TOP=../../../;
elif test -f ../../../../$CONFIG_SH; then TOP=../../../../;
else
echo "Can't find $CONFIG_SH."; exit 1
fi
. $TOP/$CONFIG_SH
;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*/\)^'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X:
all original #undef have been processed.
?X:
?X: Previously, we changed all
?X: #undef FOO /**/
?X: into
?X: /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X: /*#define FOO / **/
sed <<!GROK!THIS!>$CONFIG_H -e 's!^#undef\(.*/\)^*!/^*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises. Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.

```

```

*
*\Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
  : $package
* Source directory : $src
* Configuration time: $cf_time
* Configured by   : $cf_by
* Target system   : $myuname
*/

#ifndef _config_h_
#define _config_h_

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getservent_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
  available to getservent re-entrantly.
?C:.

```



```

?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getservent_r_proto:$usetthreads" in
":define") d_getservent_r_proto=define
set d_getservent_r_proto getservent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getservent_r_proto" in
define)
case "$getservent_r_proto" in
"|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
esac
case "$getservent_r_proto"
in
"|0) try='int getservent_r(struct servent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
esac
case "$getservent_r_proto" in
"|0) try='struct servent* getservent_r(struct servent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
esac
case "$getservent_r_proto" in
"|0) try='int getservent_r(struct servent*, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
esac
case "$getservent_r_proto" in
"|0) d_getservent_r=undef
getservent_r_proto=0
echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
*) case "$getservent_r_proto" in
REENTRANT_PROTO*) ;;
*) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;

```

```

esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getservent_r has no prototype, not using it." >&4 ;;
esac
d_getservent_r=undef
getservent_r_proto=0
;;
esac
;;
*) getservent_r_proto=0
;;
esac

```

Found

in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_getservent_r.U

```

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?RCS:

?MAKE:d\_cplusplus: Compile Setvar run cat rm\_try

?MAKE: -pick add \$@ %<

?S:d\_cplusplus (d\_cplusplus.U):

?S: This variable conditionally defines the USE\_CPLUSPLUS symbol, which

?S: indicates that a C++ compiler was used to compiled Perl and will be

?S: used to compile extensions.

?S:.

?C:USE\_CPLUSPLUS:

?C: This symbol, if defined, indicates that a C++ compiler was

?C: used to compiled Perl and will be used to compile extensions.

?C:.

?H:#\$d\_cplusplus USE\_CPLUSPLUS /\*\*/

?H:.

?F:!try

?LINT:set d\_cplusplus

: Check if we are using C++

echo " "

echo "Checking for C++..." >&4

\$cat >try.c <<'EOCP'

#include <stdio.h>

int main(void)

```

{
#ifdef __cplusplus
    return 0;
#else
    return 1;
#endif
}
EOCP
set try
if eval $compile_ok
  && $run ./try; then
  val="$define"
  echo "You are using a C++ compiler."
else
  val="$undef"
  echo "You are not using a C++ compiler."
fi
$rm_try cplusplus$$
set d_cplusplus
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_cplusplus.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Compile.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS:

?X:

?X: This unit is just a quick shorthand for the compile command

?X: to be used in all the other metaconfig units.

?X:

?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test

?MAKE: -pick wipe \$@ %<

?LINT:extern usedevel maintloc

?LINT:define compile compile\_ok

?V:compile compile\_ok mc\_file

?S:compile:

?S: This shell variable is used internally by Configure to provide

?S: a convenient shorthand for the typical compile command, namely

?S: \$cc \$optimize \$ccflags \$ldflags -o \$1 \$1.c \$libs > /dev/null 2>&1

?S: Note that the output filename does not include the \_exe

?S: extension. Instead we assume that the linker will be  
?S: "helpful" and automatically appending the correct suffix.  
?S: OS/2  
users will apparently need to supply the -Zexe flag to  
?S: get this behavior.  
?S:  
?S: To use this variable, say something like:  
?S: echo 'int main() { exit(0); }' > try.c  
?S: set try  
?S: if eval \$compile; then  
?S: echo "success" # and do whatever . . .  
?S: else  
?S: echo "failure" # and do whatever . . .  
?S: fi  
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them  
?S: in \$\*, e.g.  
?S: set try -DTRY\_THIS\_FLAG  
?S:.  
?S:compile\_ok:  
?S: This shell variable is used internally by Configure to provide  
?S: a convenient shorthand for the typical compile command that you  
?S: expect to work ok. It is the same as \$compile, except we  
?S: deliberately let the user see any error messages.  
?S:.  
: define a shorthand compile call  
compile='  
mc\_file=\$1;  
shift;  
case "\$usedevel" in \$define|true|[yY]\*) if \$test ! -f "\${mc\_file}.c"; then  
echo "Internal Configure script bug - compiler test file \${mc\_file}.c is missing. Please report this to <\$maintloc>"  
>&4;  
exit 1;  
fi;  
esac;  
\$cc  
-o \${mc\_file} \$optimize \$ccflags \$ldflags \$\* \${mc\_file}.c \$libs > /dev/null 2>&1;  
: define a shorthand compile call for compilations that should be ok.  
compile\_ok='  
mc\_file=\$1;  
shift;  
\$cc -o \${mc\_file} \$optimize \$ccflags \$ldflags \$\* \${mc\_file}.c \$libs > /dev/null 2>&1;'

Found in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/compline/Compile.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_nice.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_nice.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:09:48 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_nice: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_nice:  
?S: This variable conditionally defines the HAS\_NICE symbol, which  
?S: indicates to the C program that the nice() routine is available.  
?S:.  
?C:HAS\_NICE :  
?C: This symbol, if defined, indicates that the nice routine is  
?C: available.  
?C:.  
?H:#\$d\_nice  
HAS\_NICE /\*\*/  
?H:.  
?LINT:set d\_nice  
: see if nice exists  
set nice d\_nice  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_nice.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1998, Jarkko Hietaniemi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:

?MAKE:i\_thread: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_thread:  
?S: This variable conditionally defines the I\_PTHREAD symbol,  
?S: and indicates whether a C program should include <pthread.h>.  
?S:.  
?C:I\_PTHREAD:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <pthread.h>.  
?C:.  
?H:#\$i\_thread I\_PTHREAD /\*\*/  
?H:.  
?LINT:set i\_thread  
: see if POSIX threads are available  
set pthread.h i\_thread  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/i\_thread.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_regex.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>  
?RCS:  
?RCS: \$Log: i\_regex.U,v \$  
?RCS: Revision 3.0.1.1 1995/01/30 14:35:45 ram  
?RCS: patch49: created  
?RCS:  
?RCS:  
?MAKE:i\_regex: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_regex:  
?S: This variable conditionally defines the I\_REGEX symbol, which  
?S: indicates to the C program that <regex.h> exists and should  
?S: be included.  
?S:.  
?C:I\_REGEX:  
?C: This symbol, if defined, indicates that <regex.h> exists

and should  
?C: be included.  
?C:.  
?H:#\$i\_regex I\_REGEX /\*\*/  
?H:.  
?LINT:set i\_regex  
: see if regex is available  
set regex.h i\_regex  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_regex.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_poll.U,v \$  
?RCS:  
?RCS: Copyright (c) 2001 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_langinfo: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_langinfo:  
?S: This variable conditionally defines the I\_LANGINFO symbol,  
?S: and indicates whether a C program should include <langinfo.h>.  
?S:.  
?C:I\_LANGINFO:  
?C: This symbol, if defined, indicates that <langinfo.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_langinfo I\_LANGINFO /\*\*/  
?H:.  
?LINT:set i\_langinfo  
: see if this is a langinfo.h system  
set langinfo.h i\_langinfo  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_langinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_cuserid.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:07:25 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_cuserid: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_cuserid:  
?S: This variable conditionally defines the HAS\_CUSERID symbol, which  
?S: indicates to the C program that the cuserid() routine is available  
?S: to get character login names.  
?S:.  
?C:HAS\_CUSERID :  
?C: This symbol,  
if defined, indicates that the cuserid routine is  
?C: available to get character login names.  
?C:.  
?H:#\$d\_cuserid HAS\_CUSERID /\*\*/  
?H:.  
?LINT:set d\_cuserid  
: see if cuserid exists  
set cuserid d\_cuserid  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_cuserid.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1997, Chip Salzenberg  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: sh.U,v \$



```

?RCS: Revision 3.0.1.1 1997/02/28 16:20:13 ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts. Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This
    unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts. Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh" /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for
    Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
case "$SYSTYPE" in
*bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
*) xxx='/bin/sh';;
esac

```

```

if test -f "$xxx"; then
  sh="$xxx"
else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
    for p in $pth; do
      try="$try ${p}/${xxx}"
    done
  done
  for xxx in $try; do
    if test -f "$xxx"; then
      sh="$xxx";
      break
    elif test "X$_exe" != X -a -f "$xxx$_exe"; then
      sh="$xxx";
      break
    elif test -f "$xxx.exe"; then
      sh="$xxx";
      break
    fi
  done
fi
;;
esac

```

?X: fd 4 isn't open yet...

```
case "$sh" in
```

```
) cat >&2 <<EOM
```

\$me: Fatal Error: I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh. How did you even get this far?

Please report this issue at <\$maintloc>

and we'll try to straighten this all out.

```
EOM
```

```
exit 1
```

```
;;
```

```
esac
```

: When cross-compiling we

need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl

: default both to the same thing, cross-compilers can then set targetsh differently if they like

targetsh=\$sh

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/sh.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE:-pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_msem_lck.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:31 ram
```

?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_memccpy: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_memccpy:  
?S: This variable conditionally defines the HAS\_MEMCCPY symbol, which  
?S: indicates to the C program that the memccpy() routine is available  
?S: to copy a character into a block of memory.  
?S:.  
?C:HAS\_MEMCCPY (MEMCCPY):  
?C: This symbol, if defined, indicates that the memccpy routine  
is available  
?C: to copy a character into a block of memory. Otherwise you should  
?C: roll your own.  
?C:.  
?H:#\$d\_memccpy HAS\_MEMCCPY /\*\*/  
?H:.  
?LINT:set d\_memccpy  
: see if memccpy exists  
set memccpy d\_memccpy  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_memccpy.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_asctime\_r.U,v 0RCS:  
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
?RCS:  
?MAKE:d\_asctime\_r asctime\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_time i\_systemtime extern\_C  
?MAKE: -pick add \$@ %<  
?S:d\_asctime\_r:  
?S: This variable conditionally defines the HAS\_ASCTIME\_R symbol,  
?S: which indicates to the C program that the asctime\_r()  
?S: routine is available.  
?S:.  
?S:asctime\_r\_proto:  
?S: This variable encodes the prototype of asctime\_r.  
?S: It is zero if d\_asctime\_r is undef, and one of the  
?S: REentrant\_PROTO\_T\_ABC macros of reentr.h if d\_asctime\_r  
?S: is defined.

```

?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
re-entrantly.
?C:.
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
case "$d_asctime_r_proto:$usethreads" in
":define") d_asctime_r_proto=define
set d_asctime_r_proto asctime_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_asctime_r_proto" in
define)
case "$asctime_r_proto" in
"|0) try='char* asctime_r(const struct tm*, char*);'
./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
esac
case "$asctime_r_proto" in
"|0) try='char* asctime_r(const struct tm*, char*, int);'
./protochk "$extern_C $try" $hdrs
&& asctime_r_proto=B_SBI ;;
esac
case "$asctime_r_proto" in
"|0) try='int asctime_r(const struct tm*, char*);'
./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
esac
case "$asctime_r_proto" in
"|0) try='int asctime_r(const struct tm*, char*, int);'
./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
esac
case "$asctime_r_proto" in

```

```

"|0) d_asctime_r=undef
asctime_r_proto=0
echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
*) case "$asctime_r_proto" in
REENTRANT_PROTO*) ;;
*) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "asctime_r has no prototype, not using it." >&4 ;;
esac
d_asctime_r=undef
asctime_r_proto=0
;;
esac
;;
*) asctime_r_proto=0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_asctime_r.U
```

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?RCS: Copyright (c) 2006-2007, H.Merijn Brand

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_builtin\_choose\_expr d\_builtin\_expect : Compile Setvar cat run rm\_try

?MAKE: -pick add \$@ %<

?S:d\_builtin\_choose\_expr:

?S: This conditionally defines HAS\_BUILTIN\_CHOOSE\_EXPR, which

?S: indicates that the compiler supports \_\_builtin\_choose\_expr(x,y,z).

?S: This built-in function is analogous to the "x?y:z" operator in C,

?S: except that the expression returned has its type unaltered by

?S: promotion rules. Also, the built-in function does not evaluate

?S: the expression that was not chosen.

?S:.

?S:d\_builtin\_expect:

?S: This conditionally

```

defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c). You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
case "$d_builtin_choose_expr" in
")
    echo " "
    echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
    $cat >try.c <<'EOCP'
#include <assert.h>
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )

int main(void) {
    assert( SYRINX(1) == 2112 );
    assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
    assert( SYRINX(0) != 2112 );
    puts( "All good!" );
    exit(0);
}

EOCP
set try
if eval $compile && $run ./try; then
echo "Your C compiler supports __builtin_choose_expr."
val="$define"
else
echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
val="$undef"
fi
;;

```

```

*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
    echo " "
    echo "Checking whether your compiler can handle __builtin_expect ..." >&4
    $cat >try.c <<'EOCP'
int main(void) {
    int n = 50;
    if ( __builtin_expect(n, 0) ) n = 1;
    /* Remember shell exit code truth is 0, C truth is non-zero */
    return !(n == 1);
}
EOCP
    set try
    if eval $compile && $run ./try; then
    echo "Your C compiler supports __builtin_expect."
    val="$define"
    else
    echo "Your C compiler doesn't seem to understand __builtin_expect."
    val="$undef"
    fi
    ;;
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_builtin.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_system.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: d\_system.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:44 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_system: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_system:

?S: This variable conditionally defines HAS\_SYSTEM if system() is

?S: available to issue a shell command.

?S:.

?C:HAS\_SYSTEM (SYSTEM):

?C: This symbol, if defined, indicates that the system routine is

?C: available to issue a shell command.

?C:.

?H:#\$d\_system HAS\_SYSTEM /\*\*/

?H:.

?LINT:set

d\_system

: see if system exists

set system d\_system

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_system.U

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?RCS:

?RCS: \$Log: cpp\_stuff.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:30:48 ram

?RCS: patch61: added cute quoting trick for wild stringify support

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:08:24 ram

?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)

?RCS: patch36: remove temporary files when done

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:36 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:cpp\_stuff cpp\_quote: cat contains cppstdin cppflags cppminus rm Warn \  
package

?MAKE: -pick  
add \$@ %<

?S:cpp\_stuff:

?S: This variable contains an identification of the catenation mechanism

?S: used by the C preprocessor.

?S:.

?S:cpp\_quote:

?S: This variable is set to either "" or " depending on whether the

?S: pre-processor pre-dates ANSI or not. It is used in the production of

?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug

?S: in gcc 3.x whereby the pre-processor complained loudly about the

?S: unterminated strings.

?S:.

?C:CAT2:

?C: This macro catenates 2 tokens together.

?C:.

?C:CAT3:

?C: This macro catenates 3 tokens together.

?C:.

?C:CAT4:

?C: This macro catenates 4 tokens together.

?C:.

?C:CAT5:

?C: This macro catenates 5 tokens together.

?C:.

?C:STRINGIFY:

?C: This macro surrounds its token with double quotes.

?C:.

?C:SCAT2:

?C: This macro catenates 2 tokens together and stringifies the result.

?C:.

?C:SCAT3:

?C: This macro catenates 3 tokens together and stringifies the result.

?C:.

?C:SCAT4:

?C: This macro catenates 4 tokens  
together and stringifies the result.

?C:.

?C:SCAT5:

?C: This macro catenates 5 tokens together and stringifies the result.

?C:.

?H:%<:#if \$cpp\_stuff == 1

?H:?CAT2:#define CAT2(a,b)a/\*\*/b

```

?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a){ cpp_quote }a
?H:?%<:#define EQuoTe(a)a{ cpp_quote }
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros. See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d)
    CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bleth: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote="
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
echo "Oh! Smells like ANSI's been here."

```

```

echo "We can catify or stringify, separately or together!"
cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
echo "Ah, yes! The good old days!"
cpp_stuff=1
$cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains ""Victory"" cpp_stuff.out >/dev/null 2>&1; then
echo "I'll resort to a cute trick to also be able to stringify."
cpp_quote=""
else
$cat <<EOM
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
fi
else
./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
SCAT[2-5]
@end

in order to let me compile.
@end
EOM
cpp_stuff="/* Help! How do we handle cpp_stuff? *//*/"
fi
$rm -f cpp_stuff.*

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cpp\_stuff.U

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?RCS:

?RCS: \$Log: d\_access.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:42 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_access: test +cc cat +cppflags h\_fcntl h\_sysfile rm Inlibc Findhdr

?MAKE: -pick add \$@ %<

?S:d\_access:

?S: This variable conditionally defines HAS\_ACCESS if the access() system

?S: call is available to check for access permissions using real IDs.

?S:.

?C:HAS\_ACCESS:

?C: This manifest constant lets the C program know that the access()

?C: system call is available to check for accessibility

using real UID/GID.

?C: (always present on UNIX.)

?C:.

?H:#\$d\_access HAS\_ACCESS /\*\*/

?H:.

?W:%<:R\_OK W\_OK X\_OK F\_OK

?LINT:set d\_access

?LINT:change h\_fcntl h\_sysfile

: access call always available on UNIX

set access d\_access

eval \$inlibc

: locate the flags for 'access()'

case "\$d\_access" in

"\$define")

echo " "

\$cat >access.c <<'EOCP'

#include <sys/types.h>

#ifdef I\_FCNTL

#include <fcntl.h>

```

#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
    exit(R_OK);
}
EOCP
: check sys/file.h first, no particular reason here
if $test `./findhdr sys/file.h` && \
    $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
    h_sysfile=true;
    echo "<sys/file.h> defines the *_OK access constants." >&4
elif $test `./findhdr fcntl.h` && \
    $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
    h_fcntl=true;
    echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
elif $test `./findhdr unistd.h`
&& \
    $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
    echo "<unistd.h> defines the *_OK access constants." >&4
@end
else
    echo "I can't find the four *_OK access constants--I'll use mine." >&4
fi
;;
esac
$rm -f access*

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_access.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_llrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llrintl:

?S: This variable conditionally defines the HAS\_LLRINTL symbol, which

?S: indicates to the C program that the llrintl() routine is available

?S: to return the long long value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LLRLINTL:

?C: This symbol, if defined, indicates that the llrintl routine is

?C: available to return the long long value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_llrintl HAS\_LLRLINTL /\*\*/

?H:.

?LINT:set d\_llrintl

: see if llrintl exists

set llrintl d\_llrintl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_llrintl.U

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_snprintf d\_vsnprintf : Inlibc Compile cat run rm\_try

?MAKE: -pick add \$@ %<

?S:d\_snprintf:

?S: This variable conditionally defines the HAS\_SNPRINTF symbol, which

?S: indicates to the C program that the snprintf () library function

?S: is available.

?S:.

?S:d\_vsnprintf:

?S: This variable conditionally defines the HAS\_VSNPRINTF symbol, which

?S: indicates to the C program that the vsnprintf () library function

?S: is available.

?S:.

?C:HAS\_SNPRINTF:

?C: This symbol, if defined, indicates that the snprintf () library

?C: function

is available for use.

?C:.

?C:HAS\_VSNPRINTF:

?C: This symbol, if defined, indicates that the vsnprintf () library

?C: function is available for use.

?C:.

?H:#\$d\_snprintf HAS\_SNPRINTF /\*\*/

```

?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
set snprintf d_snprintf
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
    $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
    $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
#include <stdarg.h>

char buf[2];

int test (char *format, ...)
{
    va_list args;
    int count;

    va_start
    (args, format);
    count = vsnprintf (buf, sizeof buf, format, args);
    va_end (args);
    return count;
}

int main ()
{
    return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
        && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
EOCP

```



```

set try
if eval $compile; then
`$run ./try`
case "$?" in
0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
*) cat <<EOM >&4
Your snprintf() and vsnprintf() don't seem to be working okay.
EOM

```

```

d_snprintf="$undef"
d_vsnprintf="$undef"
;;
esac
else
echo "(I can't seem to compile the test program--assuming they don't)"
d_snprintf="$undef"
d_vsnprintf="$undef"
fi
$rm_try
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_snprintf.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: archlib.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 15:23:38 ram

?RCS: patch61: skip existence checks for archlib

?RCS:

?RCS: Revision 3.0.1.4 1995/09/25 09:15:18 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.3 1995/02/15 14:14:14 ram

?RCS: patch51: architecture name is now computed by a separate unit

?RCS:

?RCS: Revision 3.0.1.2 1995/01/30 14:32:22 ram

?RCS:  
patch49: archname is now systematically recomputed

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:02:36 ram

?RCS: patch36: created by ADO

?RCS:  
?MAKE:d\_archlib archlib archlibexp installarchlib: archname afs spackage \  
cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup

?MAKE: -pick add \$@ %<

?Y:TOP

?S:d\_archlib:  
?S: This variable conditionally defines ARCHLIB to hold the pathname  
?S: of architecture-dependent library files for \$package. If  
?S: \$archlib is the same as \$privlib, then this is set to undef.

?S:.  
?S:archlib:  
?S: This variable holds the name of the directory in which the user wants  
?S: to put architecture-dependent public library files for \$package.  
?S: It is most often a local directory such as /usr/local/lib.  
?S: Programs using this variable must be prepared to deal  
?S: with filename expansion.

?S:.  
?S:archlibexp:  
?S: This variable is the same as the archlib variable, but is  
?S: filename  
expanded at configuration time, for convenient use.

?S:.  
?S:installarchlib:  
?S: This variable is really the same as archlibexp but may differ on  
?S: those systems using AFS. For extra portability, only this variable  
?S: should be used in makefiles.

?S:.  
?C:ARCHLIB:  
?C: This variable, if defined, holds the name of the directory in  
?C: which the user wants to put architecture-dependent public  
?C: library files for \$package. It is most often a local directory  
?C: such as /usr/local/lib. Programs using this variable must be  
?C: prepared to deal with filename expansion. If ARCHLIB is the  
?C: same as PRIVLIB, it is not defined, since presumably the  
?C: program already searches PRIVLIB.

?C:.  
?C:ARCHLIB\_EXP:  
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used  
?C: in programs that are not prepared to deal with ~ expansion at run-time.

?C:.  
?H:#\$d\_archlib ARCHLIB "\$archlib" /\*\*/

```

?H:#$d_archlib ARCHLIB_EXP "$sarchlibexp" /**/
?H.:
: determine where public architecture
dependent libraries go
set archlib archlib
eval $prefixit
case "$sarchlib" in
")
case "$sprivlib" in
")
dflt=`./loc . ." $prefixexp/lib /usr/local/lib /usr/lib /lib`
set dflt
eval $prefixup
;;
*) dflt="$sprivlib/$sarchname";;
esac
;;
*) dflt="$sarchlib";;
esac
cat <<EOM

```

\$spackage contains architecture-dependent library files. If you are sharing libraries in a heterogeneous environment, you might store these files in a separate location. Otherwise, you can just include them with the rest of the public library files.

```

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
./getfile
archlib="$sans"
archlibexp="$sansexp"

if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which private files reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installarchlib" in
") dflt=`echo $sarchlibexp | sed 's#^/afs/#/afs/#'`;;
*)
dflt="$installarchlib";;
esac
fn=de~
rp='Where will architecture-dependent library files be installed?'

```

```

./getfile
installarchlib="$ans"
else
installarchlib="$sarchlibexp"
fi
if $test X"$sarchlib" = X"$sprivlib"; then
d_archlib="$undef"
else
d_archlib="$define"
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/archlib.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_time.U,v 3.0 1993/08/18 12:08:45 ram Exp \$

?RCS:

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?RCS:

?RCS: \$Log: i\_time.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit finds which "time" include to use. If 'timezone' is used by the

?X: program, we also try to find which header should be included. Eventually,

?X: we look for <sys/select.h> if I\_SYSSSELECT is used, to get struct timeval.

?X:

?MAKE:i\_time i\_systime i\_systimek timeincl d\_tm\_tm\_zone d\_tm\_tm\_gmtoff: \

Compile cat \

contains rm\_try echo n

c +i\_sysselect Findhdr Hasfield i\_stdlib

?MAKE: -pick add \$@ %<

?S:i\_time:

?S: This variable unconditionally defines I\_TIME, which indicates

?S: to the C program that it should include <time.h>.

?S:.

?S:i\_systime:

?S: This variable conditionally defines I\_SYS\_TIME, which indicates

?S: to the C program that it should include <sys/time.h>.

?S:.

?S:i\_systimek:  
 ?S: This variable conditionally defines I\_SYS\_TIME\_KERNEL, which  
 ?S: indicates to the C program that it should include <sys/time.h>  
 ?S: with KERNEL defined.  
 ?S:.

?S:timeincl:  
 ?S: This variable holds the full path of the included time header(s).  
 ?S:.

?S:d\_tm\_tm\_zone:  
 ?S: This variable conditionally defines HAS\_TM\_TM\_ZONE, which indicates  
 ?S: to the C program that the struct tm has the tm\_zone field.  
 ?S:.

?S:d\_tm\_tm\_gmtimeoff:  
 ?S: This variable conditionally defines HAS\_TM\_TM\_GMTIMEOFF, which indicates  
 ?S: to the C program that the struct tm has the tm\_gmtimeoff field.  
 ?S:.

?C:I\_TIME (USE\_TIME\_H):  
 ?C: This symbol is always defined, and indicates  
 to the C program that  
 ?C: it should include <time.h>.  
 ?C:.

?C:I\_SYS\_TIME (I\_SYSTIME USE\_SYS\_TIME\_H NO\_TIME\_WITH\_SYS\_TIME):  
 ?C: This symbol, if defined, indicates to the C program that it should  
 ?C: include <sys/time.h>.  
 ?C:.

?C:I\_SYS\_TIME\_KERNEL (I\_SYSTIMEKERNEL):  
 ?C: This symbol, if defined, indicates to the C program that it should  
 ?C: include <sys/time.h> with KERNEL defined.  
 ?C:.

?C:HAS\_TM\_TM\_ZONE:  
 ?C: This symbol, if defined, indicates to the C program that  
 ?C: the struct tm has a tm\_zone field.  
 ?C:.

?C:HAS\_TM\_TM\_GMTIMEOFF:  
 ?C: This symbol, if defined, indicates to the C program that  
 ?C: the struct tm has a tm\_gmtimeoff field.  
 ?C:.

?H:#\$i\_time I\_TIME /\*\*/  
 ?H:#\$i\_systime I\_SYS\_TIME /\*\*/  
 ?H:#\$i\_systimek I\_SYS\_TIME\_KERNEL /\*\*/  
 ?H:#\$d\_tm\_tm\_zone HAS\_TM\_TM\_ZONE /\*\*/  
 ?H:#\$d\_tm\_tm\_gmtimeoff HAS\_TM\_TM\_GMTIMEOFF /\*\*/  
 ?H:.

?W::timezone  
 ?T:xselect flags sysselect s\_timeval s\_timezone  
 ?LINT:change i\_sysselect  
 ?LINT:set d\_tm\_tm\_zone  
 ?LINT:set d\_tm\_tm\_gmtimeoff

```

: see if we should include sys/time.h
echo
" "
i_time='define'
if test "$timeincl" = X; then
echo "Testing to see if we should include <sys/time.h>." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
struct tm foo;
#ifdef S_TIMEVAL
struct timeval bar;
#endif
#ifdef S_TIMEZONE
struct timezone tzp;
#endif
if (foo.tm_sec == foo.tm_sec)
exit(0);
#ifdef S_TIMEVAL
if (bar.tv_sec == bar.tv_sec)
exit(0);
#endif
exit(1);
}
EOCP
flags="
@if I_SYSSELECT
if $contains 'timeval.*{'`./findhdr sys/select.h` >/dev/null 2>&1; then
xselect='-DI_SYSSELECT'
else
xselect="
fi

```

```

@end
@if timezone
for s_timezone in '-DS_TIMEZONE' "; do
@else
s_timezone=""
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSSELECT
for sysselect in $xselect
"; do
@else
sysselect=""
@end
for s_timeval in '-DS_TIMEVAL' "; do
for i_systimek in " '-DSYSTIMEKERNEL'; do
for i_systime in '-DI_SYSTIME' "; do
case "$flags" in
") $echo $n ".$c"
set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
if eval $compile; then
set X $i_systime $i_systimek $sysselect $s_timeval
shift
flags="$*"
echo " "
$echo $n "Succeeded with $flags$c"
fi
;;
esac
done
done
done
@if I_SYSSSELECT
done
@end
@if timezone
done
@end
timeincl=""
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
timeincl=`./findhdr sys/time.h`
echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
timeincl=`./findhdr sys/time.h` $timeincl"

```

```

echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSSELECT
case "$flags" in
*_I_SYSSSELECT*) i_syssselct="$define"
timeincl=`./findhdr sys/select.h`"
$timeincl"
echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_syssselct" in
") i_syssselct="$undef";;
esac
esac
@end
$rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
echo " "
echo "Checking to see if your struct tm has tm_zone field..." >&4
set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
eval $hasfield
;;
*) val="$undef"
set d_tm_tm_zone
eval $setvar
;;
esac
case "$d_tm_tm_zone" in
"$define") echo "Yes, it does." ;;
*) echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
echo " "
echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
eval $hasfield
;;
*) val="$undef"
set d_tm_tm_gmtoff
eval $setvar
;;
esac
case "$d_tm_tm_gmtoff" in

```



```
"$define")    echo "Yes, it does." ;;
*)           echo "No, it doesn't." ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/i_time.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_ustat: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ustat:

?S: This variable conditionally defines HAS\_USTAT if ustat() is

?S: available to query file system statistics by dev\_t.

?S:.

?C:HAS\_USTAT:

?C: This symbol, if defined, indicates that the ustat system call is

?C: available to query file system statistics by dev\_t.

?C:.

?H:#\$d\_ustat HAS\_USTAT /\*\*/

?H:.

?LINT:set d\_ustat

: see if ustat exists

set ustat d\_ustat

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_ustat.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?X: This unit generates a \$hasstruct string that is used internally  
?X: by Configure to check if this system has a field for a  
?X: particular struct (of if this system has a particular struct!)  
?X:

?X: To use it, say something like:

?X: set d\_statblocks stat i\_sysstat sys/stat.h

?X: eval \$hasstruct

?X: Or, for more complicated sets of headers, do something like

?X: hdrs="\$define sys/foo.h

?X: \$i\_sysbar sys/bar.h

?X: \$i\_syszot sys/zot.h

?X: \$i\_zappa zappa.h"

?X: set d\_statblocks stat \$hdrs

?X: eval \$hasstruct

?X:

?MAKE:Hasstruct: Setvar rm\_try test Compile

?MAKE: -pick add \$@ %<

?T:varname struct

?V:hasstruct

: Define hasstruct macro for Configure internal use

```
hasstruct='varname=$1; struct=$2; shift;
```

```
shift;
```

```
while $test $# -ge 2; do
```

```
case "$1" in
```

```
$define) echo "#include <$2>";;
```

```
esac ;
```

```
    shift 2;
```

```
done > try.c;
```

```
echo "int main () { struct $struct foo; }" >> try.c;
```

```
set try;
```

```
if eval $compile; then
```

```
    val="$define";
```

```
else
```

```
    val="$undef";
```

```
fi;
```

```
set $varname;
```

```
eval $setvar;
```

```
$rm_try'
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/Hasstruct.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: Whoa.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram  
?RCS: patch61: whoa script now starts with leading "startsh"  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:19 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit produces a bit of shell code that must be dotted in in order  
?X: to warn the user in case a change into a variable  
is noticed.  
?X:  
?X: To use this unit, \$was must hold the old value that has changed. Upon  
?X: exit, the two variables \$td and \$tu are set to the correct value for  
?X: respectively defining or undefining a variable. For instance, if \$vas was  
?X: \$undef, but now \$var is \$define, after calling . whoa, you should use  
?X: eval "\$var=\$tu" to finally set \$var to the correct value. See unit Inlibc.  
?X:  
?MAKE:Whoa: Myread startsh hint  
?MAKE: -pick add \$@ %<  
?F:./whoa  
?T:var was td tu hintfile  
: set up the script used to warn in case of inconsistency  
cat <<EOS >whoa  
\$startsh  
EOS  
cat <<'EOSC' >>whoa  
dflt=y  
case "\$hint" in  
recommended)  
case "\$hintfile" in  
") echo "The \$hint value for \\$\$var on this machine was \"\$was\!" ">&4  
;;  
\*) echo "Hmm. Based on the hints in hints/\$hintfile.sh, ">&4  
echo "the \$hint value for \\$\$var on this machine was \"\$was\!" ">&4  
;;  
esac  
;;  
\*) echo " "

```

echo "*** WHOA THERE!!! ***" >&4
echo " The $hint value for \$$var on this machine was
\"$was\"!" >&4
;;
esac
rp=" Keep the $hint value?"
./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/Whoa.U
```

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log2:

?S: This variable conditionally defines the HAS\_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS\_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d\_log2 HAS\_LOG2 /\*\*/

?H:.

?LINT:set d\_log2

: see if log2 exists

set log2 d\_log2

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_log2.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: doublesize.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:17:06 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:06 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:doublesize: cat rm\_try Myread Compile run i\_stdlib

?MAKE: -pick add \$@ %<

?S:doublesize:

?S: This variable contains the value of the DOUBLESIZE symbol, which

?S: indicates to the C program how many bytes there are in a double.

?S:.

?C:DOUBLESIZE:

?C: This

symbol contains the size of a double, so that the C preprocessor

?C: can make decisions based on it.

?C:.

?H:#define DOUBLESIZE \$doublesize /\*\*/

?H:.

?F:!try

: check for length of double

echo " "

case "\$doublesize" in

)

echo "Checking to see how big your double precision numbers are..." >&4

\$cat >try.c <<EOCP

#include <stdio.h>

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include <stdlib.h>

#endif

int main()

{

printf("%d\n", (int)sizeof(double));

exit(0);

}

EOCP

set try

if eval \$compile\_ok; then

doublesize=`\$run ./try`

echo "Your double is \$doublesize bytes long."

else

```

dflt='8'
echo "(I can't seem to compile the test program.  Guessing...)"
rp="What is the size of a double precision number (in bytes)?"
./myread
doublesize="$ans"
fi
;;
esac
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/doublesize.U

```

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?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: stdchar.U,v \$

?RCS: Revision 3.0 1993/08/18 12:09:52 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:stdchar: contains Findhdr cppstdin cppminus rm

?MAKE: -pick add \$@ %<

?S:stdchar:

?S: This variable conditionally defines STDCHAR to be the type of char

?S: used in stdio.h. It has the values "unsigned char" or "char".

?S:.

?C:STDCHAR:

?C: This symbol is defined to be the type of char used in stdio.h.

?C: It has the values "unsigned char" or "char".

?C:.

?H:#define STDCHAR \$stdchar /\*\*/

?H:.

?F:!stdioh

:

see what type of char stdio uses.

echo " "

?X: untangle the #include nest

echo '#include <stdio.h>' | \$cppstdin \$cppminus > stdioh

if \$contains 'unsigned.\*char.\*\_ptr;' stdioh >/dev/null 2>&1 ; then

```
echo "Your stdio uses unsigned chars." >&4
stdchar="unsigned char"
else
echo "Your stdio uses signed chars." >&4
stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/stdchar.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Cygnus Support

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Tom Tromeey <tromeey@cygnus.com>

?RCS:

?RCS: \$Log: src.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:23:54 ram

?RCS: patch61: created

?RCS:

?MAKE:src +rsrc: Options package contains

?MAKE: -pick add \$@ %<

?Y:TOP

?S:src (srcdir):

?S: This variable holds the (possibly relative) path of the package source.

?S: It is up to the Makefile to use this variable and set VPATH accordingly

?S: to find the sources remotely. Use \$pkgsrc to have an absolute path.

?S:.

?S:rsrc

(relsrcdir):

?S: This variable holds a potentially relative path to the package

?S: source. The contents are correct for the configuration environment,

?S: i.e. there might be an extra .. prepended to get out of the UU dir.

?S: Configure units should use this, not the src variable.

?S:.

: Find the path to the source tree

case "\$src" in

") case "\$0" in

```

/*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%`
  case "$src" in
/*) ;;
.) ;;
  *) src=`cd ../$src && pwd` ;;
esac
  ;;
  *) src='.';;
esac;;
esac
case "$src" in
") src=/
  rsrc=/
  ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromeu forced
?X: the user to pick a unique file from his distribution, and we were merely
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
?X: part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
  $contains "^package=$package$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
  rsrc=""
  for src in . .. ../.. ../../.. ../../../..; do
    if test -f ../$src/Configure && \
      $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
    then
      rsrc=../$src
      break
    fi
  done
fi
case "$rsrc" in
")
  cat <<EOM >&4

```



Sorry, I can't seem to locate the source dir for \$package. Please start  
Configure with an explicit path -- i.e. /some/path/Configure.

EOM

exit 1

::

?X: Don't echo anything if the sources are in . -- they should know already ;-)

?X: In that case, rsrc is ../. since we lookup from within UU

../.) rsrc='..';;

\*)

echo

" "

echo "Sources for \$package found in \"\$src\"." >&4

::

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/dist/U/src.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: manfmt.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 16:11:57 ram

?RCS: patch61: don't ask for AFS when they choose to not install pages

?RCS:

?RCS: Revision 3.0.1.4 1995/09/25 09:16:52 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.3 1995/01/30 14:39:20 ram

?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS:

Revision 3.0.1.2 1994/08/29 16:30:31 ram

?RCS: patch32: now uses installation prefix for default setting

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:09:22 ram

?RCS: patch10: allows for L1 man page extension (WAD)

```

?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
  spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
  the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

```

\$spackage has pre-formatted manual pages. If you don't want these installed, answer 'none' to the next question.

```

EOM
case "$manfmt" in
")
  lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
  lookpath="$lookpath $prefixexp/catman/u_man/man1"
  lookpath="$lookpath $prefixexp/catman/l_man/man1"
  lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
  lookpath="$lookpath /usr/catman/man1 /usr/man/cat1"
  lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
  lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
  dflt=`./loc . none $lookpath`
set dflt

```

```

eval $prefixup
;;
*) dflt="$manfmt"
;;
esac
fn=dn~
rp='Where
do pre-formatted manual pages go?'
./getfile
if test "X$manfmtexp" != "X$ansexp"; then
installmanfmt="
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installmanfmt" in
") dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/#^`;;
*) dflt="$installmanfmt";;
esac
fn=de~
rp='Where will pre-formatted man pages be installed?'
./getfile
installmanfmt="$ans"
else
installmanfmt="$manfmtexp"
fi

case "$manfmt" in
") manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=1;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/dist/U/manfmt.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:18 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
?H:.
?T:val
?X:
  Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val="
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
echo " "
if $h_fcntl; then
val="$define"
echo "We'll be including <fcntl.h>." >&4
```

```

else
  val="$undef"
  if $h_sysfile; then
  echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
    echo "We won't be including <fcntl.h>." >&4
  fi
fi
;;
*)
h_fcntl=false
val="$undef"
;;
esac
set i_fcntl
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_fcntl.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4 1997/02/28 16:22:12 ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:37:01 ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:33:00 ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
?RCS: patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:12:58 ram
?RCS: patch10: made #-!-failure message more friendly (WAD)
?RCS:

```

```

?RCS: Revision 3.0 1993/08/18 12:09:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system. It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `sh -c '#>/dev/null 2>&1`; then
?X: echo
"Your $sh handles # comments correctly."
shsharp=true
spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
xcat=/bin/cat
test -f $xcat$_exe || xcat=/usr/bin/cat
if test ! -f $xcat$_exe; then
for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
if test -f $p/cat$_exe; then
xcat=$p/cat
break
fi
done
if test ! -f $xcat$_exe; then
echo "Can't find cat anywhere!"
exit 1
fi
fi
echo "#!$xcat" >sharp
$eunicefix sharp

```

```

chmod +x sharp
./sharp > today 2>/dev/null
if test -s today; then
?X: echo "It does."
  sharpbang='#!'
else
  echo "#! $xcat" > sharp
  $unicefix sharp
  chmod +x sharp
  ./sharp > today 2>/dev/null
  if test -s today; then
?X: echo "It does."
    sharpbang='#! '
  else
?X: echo "Okay, let's see if #! works on this system..."
?X: echo "It's just a comment."
    sharpbang=': use '
  fi
fi
else
echo " "
echo "Your $sh doesn't grok # comments--I will strip them later on."
shsharp=false
?X: The
spitshell script will be perused, so leave it out the UU directory
cd ..
echo "exec grep -v '^[ ]*#' >spitshell
chmod +x spitshell
$unicefix spitshell
spitshell=`pwd`/spitshell
cd UU
echo "I presume that if # doesn't work, #! won't work either!"
sharpbang=': use '
fi
rm -f sharp today

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/spitshell.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getservbyport\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

```

?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORTR symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORTR:
?C: This symbol, if defined, indicates
that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORTR_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORTR /**/
?H:#define GETSERVBYPORTR_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getservbyport_r_proto:$usethreads" in
":define") d_getservbyport_r_proto=define
set d_getservbyport_r_proto getservbyport_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getservbyport_r_proto" in
define)
case "$getservbyport_r_proto" in
"|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
struct servent**);'
./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;

```



```

esac
case "$getservbyport_r_proto" in
"|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICCSBI ;;
esac
case "$getservbyport_r_proto" in
"|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
esac
case "$getservbyport_r_proto" in
"|0) d_getservbyport_r=undef
getservbyport_r_proto=0
echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
*) case "$getservbyport_r_proto" in
REENTRANT_PROTO*) ;;
*) getservbyport_r_proto="REENTRANT_PROTO_${getservbyport_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
esac
d_getservbyport_r=undef
getservbyport_r_proto=0
;;
esac
;;
*) getservbyport_r_proto=0
;;
esac

```

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getservbyport\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_finitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_finitel:

?S: This variable conditionally defines the HAS\_FINITEL symbol, which

?S: indicates to the C program that the finitel() routine is available.

?S:.

?C:HAS\_FINITEL:

?C: This symbol, if defined, indicates that the finitel routine is

?C: available to check whether a long double is finite

?C: (non-infinity non-NaN).

?C:.

?H:#\$d\_finitel HAS\_FINITEL /\*\*/

?H:.

?LINT:set d\_finitel

: see if finitel exists

set finitel d\_finitel

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_finitel.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000, Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \

Myread Guess Options Oldconfig Loc osname osvers run

?MAKE: -pick add \$@ %<

?S:gccversion:

?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to

?S: indicate whether the compiler is version 1 or 2. This is used in

?S: setting some of the default cflags. It is set to " if not gcc.

?S:.

?S:gccosandvers:

?S: If GNU cc (gcc) is used, this variable holds the operating system

?S: and version used to compile gcc. It is set to " if not gcc,

?S: or if

nothing useful can be parsed as the os version.

?S:.

?S:gccansipedantic:

?S: If GNU cc (gcc) is used, this variable will enable (if set) the

?S: -ansi and -pedantic ccflags for building core files (through

?S: cflags script). (See Porting/pumpkin.pod for full description).

```

?S:.
?D:gccversion="
?D:gccansipedantic="
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
?LINT:change cpp
?LINT:extern ccflags
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
?LINT:change ccflags
?LINT:set gccansipedantic
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
printf("%s\n", __VERSION__);
#else
printf("%s\n", "1");
#endif
#endif
return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
gccversion=`$run
./try`
case "$gccversion" in
") echo "You are not using GNU cc." ;;
*) echo "You are using GNU cc $gccversion."
ccname=gcc
;;
esac
else
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo " Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
case "$knowitall" in

```

```

")
echo " You'd better start hunting for one and let me know about it." >&4
exit 1
;;
esac
fi
$rm -f try try.*
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'^
gccosandvers=`$cc -v 2>&1|grep /specs$|sed "s!.*[/^-]*-[/^-]*-([/^-]*)/$gccshortvers/specs!|1!"^
gccshortvers="
case "$gccosandvers" in
$osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
$osname$osvers) ;; # looking good
$osname*) cat <<EOM >&4

```

\*\*\* WHOA THERE!!! \*\*\*

Your gcc has not been compiled for the exact  
release of  
your operating system (\$gccosandvers versus \$osname\$osvers).

In general it is a good idea to keep gcc synchronized with  
the operating system because otherwise serious problems  
may ensue when trying to compile software, like Perl.

I'm trying to be optimistic here, though, and will continue.  
If later during the configuration and build icky compilation  
problems appear (headerfile conflicts being the most common  
manifestation), I suggest reinstalling the gcc to match  
your operating system release.

```

EOM
;;
*) gccosandvers=" ;; # failed to parse, better be silent
esac
;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

```

# gcc 3.\* complain about adding -Idirectories that they already know about,  
# so we will take those off from locincpth.

```

case "$gccversion" in
3.*)
  echo "main(){}">try.c
  for incdir in $locincpth; do
    warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
    grep '^c[cp]p*[01]: warning: changing search
order `
    if test "X$warn" != X; then
      locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
    fi
  done
  $rm -f try try.*
esac

```

```

# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*[1-9][0-9]*)
  case "$ccflags" in
*-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
*) ccflags="$ccflags -fwrapv" ;;
  esac
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/gccvers.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: usethreads.U,v \$

?RCS:

?RCS: Copyright (c) 1998-2000 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: usethreads.U,v \$

?RCS:

?MAKE:usethreads useithreads use5005threads d\_oldpthreads usereentrant: \

Myread Oldconfig Setvar test cat patchlevel

?MAKE: -pick add \$@ %<

?Y:TOP

?S:usethreads:

?S: This variable conditionally defines the USE\_THREADS symbol,

?S: and indicates that Perl should be built to use threads.

?S:.

?S:useithreads:

?S: This variable conditionally defines the USE\_ITHREADS symbol,

?S: and indicates that Perl should be built to use the interpreter-based

?S: threading implementation.

?S:.

?S:use5005threads:

?S: This variable conditionally defines the USE\_5005THREADS symbol,

?S: and indicates that Perl should be built to use the 5.005-based

?S: threading implementation.

Only valid up to 5.8.x.

?S:.

?X: I'm putting old\_pthreads in this unit because it might eventually

?X: be part of an automatic determination to see if we can use threads

?X: at all.

?S:d\_oldpthreads:

?S: This variable conditionally defines the OLD\_PTHREADS\_API symbol,

?S: and indicates that Perl should be built to use the old

?S: draft POSIX threads API. This is only potentially meaningful if

?S: usethreads is set.

?S:.

?S:usereentrant:

?S: This variable conditionally defines the USE\_REENTRANT\_API symbol,

?S: which indicates that the thread code may try to use the various

?S: \_r versions of library functions. This is only potentially

?S: meaningful if usethreads is set and is very experimental, it is

?S: not even prompted for.

?S:.

?C:USE\_ITHREADS:

?C: This symbol, if defined, indicates that Perl should be built to

?C: use the interpreter-based threading implementation.

?C:.

?C:USE\_5005THREADS:

?C: This symbol, if defined, indicates that Perl should be built to

?C: use the 5.005-based

threading implementation.

?C: Only valid up to 5.8.x.

?C:.

?C:USE\_THREADS:

?C: This symbol, if defined, indicates that Perl should

?C: be built to use threads. At present, it is a synonym for

?C: USE\_5005THREADS for perl older than 5.8 and USE\_ITHREADS

?C: for 5.8.x and newer, but eventually the source ought to be

?C: changed to use this to mean \_any\_ threading implementation.

?C:.

```

?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
?H:#$use5005threads USE_5005THREADS /**/
?H:#$useithreads USE_ITHREADS /**/
?H:?%<:#if defined(USE_5005THREADS) && !defined(USE_ITHREADS)
?H:?%<:#define USE_THREADS /* until src is revised*/
?H:?%<:#endif
?H:#$d_oldpthreads OLD_PTHREADS_API /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?X:
    [hmb] Removed LINT for use5005threads, useithreads, and
?X:     usereentrant, as LINT is only run on blead
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usethreads" in
$define|true|[yY]*)    dflt='y';;
*) # Catch case where user specified ithreads or 5005threads but
   # forgot -Dusethreads (A.D. 4/2002)
   case "$useithreads$use5005threads" in
   *$define*) dflt='y';;
   *) dflt='n';;
   esac
   ;;
esac
cat <<EOM

```

Perl can be built to offer a form of threading support on some systems  
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower  
and uses slightly more memory than plain Perl.

If this doesn't make  
any sense to you, just accept the default '\$dflt'.  
EOM

```

rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)  val="$define" ;;
*)    val="$undef" ;;
esac
set usethreads
eval $setvar

if $test $patchlevel -lt 9; then
  case "$usethreads" in
  $define)
: Default to ithreads unless overridden on command line or with
: old config.sh
dflt='y'
case "$use5005threads" in
$define|true|[yY]*)
  echo "5.005 threads are no longer supported"
  exit 1
  ;;
esac
case "$useithreads" in
$undef|false|[nN]*) dflt='n';;
esac
rp='Use the newer interpreter-based ithreads?'
. ./myread
case "$ans" in
y|Y)  val="$define" ;;
*)    val="$undef" ;;
esac
set useithreads
eval $setvar
: Now set use5005threads to the opposite value.
case "$useithreads" in
$define) val="$undef" ;;
*) val="$define" ;;
esac
set use5005threads
eval $setvar
;;
*)
useithreads="$undef"
use5005threads="$undef"
;;
esac

```

?X: This is not supposed to be possible but with some trickery,



maybe.

```
case "$useithreads$use5005threads" in
"$define$define")
$cat >&4 <<EOM
```

You cannot have both the ithreads and the 5.005 threads enabled at the same time. Disabling the 5.005 threads since they are much less stable than the ithreads.

EOM

```
use5005threads="$undef"
;;
esac
```

else

: perl-5.9.x and later

```
if test X"$usetthreads" = "X$define"; then
case "$use5005threads" in
$define|true|[yY]*)
$cat >&4 <<EOM
```

5.005 threads has been removed for 5.10. Perl will be built using ithreads.

EOM

```
;;
esac
fi
```

```
use5005threads="$undef"
useithreads="$usetthreads"
fi
```

?X: Check out what kind of threads API we have

```
case "$d_oldpthreads" in
```

) : Configure tests would be welcome here. For now, assume undef.

```
val="$undef" ;;
```

```
*) val="$d_oldpthreads" ;;
```

```
esac
```

```
set d_oldpthreads
```

```
eval $setvar
```

?X: In general, -lptthread needs to come before -lc but after other

?X: libraries such as -lgdbm and such like. We assume here that -lc

?X: is present in libswanted. If that

fails to be true, then this

?X: can be changed to add pthread to the very end of libswanted.

```

: Look for a hint-file generated 'call-back-unit'. If the
: user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
    echo "Your platform has some specific hints regarding threaded builds, using them..."
    . ./usethreads.cbu
else
    case "$usethreads" in
"$define"|true|[yY]*)
    $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
Assuming POSIX threads, then.)
EOM
;;
    esac
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/threads/usethreads.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1 1993/08/25 14:02:21 ram
?RCS: patch6: added default for i_whoami
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:50 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,

```

if defined, indicates that the program may include

?C: <whoami.h>.

?C:.

?H:#\$i\_whoami I\_WHOAMI /\*\*/

?H:.

?D:i\_whoami="

?LINT:set i\_whoami

: see if there is a whoami.h file

set whoami.h i\_whoami

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_whoami.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_gethostprotos.U,v \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_gethostprotos : Hasproto i\_netdb

?MAKE: -pick add \$@ %<

?S:d\_gethostprotos:

?S: This variable conditionally defines the HAS\_GETHOST\_PROTOS symbol,

?S: which indicates to the C program that <netdb.h> supplies

?S: prototypes for the various gethost\*() functions.

?S: See also netdbtype.U for probing for various netdb types.

?S:.

?C:HAS\_GETHOST\_PROTOS:

?C: This symbol, if defined, indicates that <netdb.h> includes

?C: prototypes for gethostent(), gethostbyname(), and

?C: gethostbyaddr(). Otherwise,

it is up to the program to guess

?C: them. See netdbtype.U for probing for various Netdb\_xxx\_t types.

?C:.

?H:#\$d\_gethostprotos HAS\_GETHOST\_PROTOS /\*\*/

?H:.

?LINT:set d\_gethostprotos

?X: This test actually only checks for gethostent() and assumes the

?X: others follow suit. This test fails for ChorusOS, which has

?X: gethostbyname and gethostbyaddr, but not gethostent.

: see if prototypes for various gethostxxx netdb.h functions are available

```
echo " "  
set d_gethostprotos gethostent $i_netdb netdb.h  
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/d_gethostprotos.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fpos64\_t: \  
Inlibc Setvar Compile rm\_try cat fposize

?MAKE: -pick add \$@ %<

?S:d\_fpos64\_t:

?S: This symbol will be defined if the C compiler supports fpos64\_t.

?S:.

?C:HAS\_FPOS64\_T:

?C: This symbol will be defined if the C compiler supports fpos64\_t.

?C:.

?H:#\$d\_fpos64\_t HAS\_FPOS64\_T /\*\*/

?H:.

?LINT:set d\_fpos64\_t

: check for fpos64\_t

echo " "

echo "Checking to see if you have fpos64\_t..." >&4

\$cat >try.c <<EOCP

#include <stdio.h>

int main() { fpos64\_t x = 7; }

EOCP

set try

if eval \$compile; then

val="\$define"

echo "You have fpos64\_t."

else

val="\$undef"

echo "You do not have fpos64\_t."

case "\$fposize" in

8) echo "(Your fpos\_t is 64 bits, so you could use that.)" ;;

esac

fi

\$rm\_try

set

```
d_fpos64_t
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fpos64_t.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: bitpbyte.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/10/29 16:02:54 ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:05:27 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:bitpbyte: cat rm Myread Compile run
```

```
?MAKE: -pick add $@ %<
```

```
?S:bitpbyte:
```

```
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
```

```
?S: indicates to the C program how many bits there are in a byte.
```

```
?S:.
```

```
?C:BITS_PER_BYTE:
```

```
?C: This
```

```
symbol contains the number of bits in a byte, so that the C
```

```
?C: preprocessor can make decisions based on it.
```

```
?C:.
```

```
?H:#define BITS_PER_BYTE $bitpbyte /**/
```

```
?H:.
```

```
?F:!try
```

```
: check for length of byte
```

```
echo " "
```

```
case "$bitpbyte" in
```

```
")
```

```
echo "Checking to see how many bits there are in a byte..." >&4
```

```
$cat >try.c <<'EOCP'
```

```
#include <stdio.h>
```

```
?X: Standard C requires a macro CHAR_BIT in <limits.h>
```

```
#ifdef __STDC__
```

```

#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
printf("%d\n", BITSPERBYTE);
}
EOCP
set try
if eval $compile_ok; then
dflt=`$run ./try`
else
dflt='8'
echo "(I can't seem to compile the test program. Guessing...)"
fi
;;
*)
dflt="$bitpbyte"
;;
esac
rp="What is the length of a byte (in bits)?"
./myread
bitpbyte="$ans"
$rm -f try.c try

```

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/bitpbyte.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getgrid\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getgrgid\_r getgrgid\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_grp extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getgrgid\_r:

?S: This variable conditionally defines the HAS\_GETGRGID\_R symbol,  
 ?S: which indicates to the C program that the getgrgid\_r()  
 ?S: routine is available.

?S:.

?S:getgrgid\_r\_proto:

?S: This variable encodes the prototype of getgrgid\_r.  
 ?S: It is zero if d\_getgrgid\_r is undef, and one of the  
 ?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getgrgid\_r  
 ?S: is defined.

?S:.

?C:HAS\_GETGRGID\_R:

?C: This symbol, if defined, indicates that the getgrgid\_r routine  
 ?C: is available to  
 getgrgid re-entrantly.

?C:.

?C:GETGRGID\_R\_PROTO:

?C: This symbol encodes the prototype of getgrgid\_r.  
 ?C: It is zero if d\_getgrgid\_r is undef, and one of the  
 ?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getgrgid\_r  
 ?C: is defined.

?C:.

?H:#\$d\_getgrgid\_r HAS\_GETGRGID\_R /\*\*/  
 ?H:#define GETGRGID\_R\_PROTO \$getgrgid\_r\_proto /\*\*/  
 ?H:.

?T:try hdrs d\_getgrgid\_r\_proto  
 : see if getgrgid\_r exists  
 set getgrgid\_r d\_getgrgid\_r  
 eval \$inlibc  
 case "\$d\_getgrgid\_r" in  
 "\$define")  
 hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_grp grp.h"  
 case "\$d\_getgrgid\_r\_proto:\$usethreads" in  
 ":define") d\_getgrgid\_r\_proto=define  
 set d\_getgrgid\_r\_proto getgrgid\_r \$hdrs  
 eval \$hasproto ;;  
 \*) ;;  
 esac  
 case "\$d\_getgrgid\_r\_proto" in  
 define)  
 case "\$getgrgid\_r\_proto" in  
 "|0) try='int getgrgid\_r(gid\_t, struct group\*, char\*, size\_t, struct group\*\*);'  
 ./protochk "\$extern\_C \$try" \$hdrs && getgrgid\_r\_proto=I\_TSBWR ;;

```

esac
case "$getgrgid_r_proto" in
"|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
group**);'
./prochck "$extern_C $try" $hdrs && getgrgid_r_proto=L_TSBIR ;;
esac
case "$getgrgid_r_proto" in
"|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
./prochck "$extern_C $try" $hdrs && getgrgid_r_proto=L_TSBI ;;
esac
case "$getgrgid_r_proto" in
"|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
./prochck "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
esac
case "$getgrgid_r_proto" in
"|0) d_getgrgid_r=undef
getgrgid_r_proto=0
echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
*) case "$getgrgid_r_proto" in
REENTRANT_PROTO*) ;;
*) getgrgid_r_proto="REENTRANT_PROTO_${getgrgid_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
esac
d_getgrgid_r=undef
getgrgid_r_proto=0
;;
esac
;;
*) getgrgid_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getgrgid\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1996, 1999 Andy Dougherty

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: man1dir.U,v \$

?RCS: Revision 3.2 1999/07/08 20:57:21 doughera

?RCS: Used installprefix.

?RCS:

?RCS: Revision 3.1 1999/07/08 20:52:19 doughera

?RCS: Updated for perl5.005\_5x

?RCS:

?RCS: Revision 3.0.1.1 1997/02/28 16:10:29 ram

?RCS: patch61: created

?RCS:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and

man3dir. This unit is basically dist's mansrc.U with

?X: man1 used instead of man everywhere.

?X:

?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \  
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \  
 prefixexp

?MAKE: -pick add \$@ %<

?Y:TOP

?D:man1dir="

?S:man1dir:

?S: This variable contains the name of the directory in which manual

?S: source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S:.

?D:man1direxp="

?S:man1direxp:

?S: This variable is the same as the man1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installman1dir="

?S:installman1dir:

?S: This variable is really the same as man1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location.

For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:man1ext:

?S: This variable contains the extension that the manual page should

```

?S: have: one of 'n', 'l', or '1'. The Makefile must supply the '!'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
echo "However, you don't have nroff, so they're probably useless to you."
case "$man1dir" in
") man1dir="none";;
esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
') dflt=none
;;
")
lookpath="$prefixexp/share/man/man1"
lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
lookpath="$lookpath $prefixexp/man/p_man/man1"
lookpath="$lookpath $prefixexp/man/u_man/man1"
lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
expect man1dir to be under prefix,
?X: so we now always put it there. Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
case "$sysman" in
*/?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
*) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
esac
set dflt
eval $prefixup
;;
*) dflt="$man1dir"
;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"

```

```
./getfile
if $test "X$man1direxp" != "X$ansexp"; then
installman1dir="
fi
prefixvar=man1dir
./setprefixvar
```

```
case "$man1dir" in
") man1dir=' '
installman1dir=";;
esac
```

: What suffix to use on installed man pages

```
case "$man1dir" in
' ')
man1ext='0'
;;
*)
rp="What suffix should be used for the main $spackage man pages?"
case "$man1ext" in
") case "$man1dir" in
*1) dflt=1 ;;
*1p) dflt=1p ;;
*1pm) dflt=1pm ;;
*l) dflt=l;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L1)
dflt=L1;;
*) dflt=1;;
esac
;;
*) dflt="$man1ext";;
esac
./myread
man1ext="$ans"
;;
esac
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/man1dir.U

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 16:20:09 ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25 14:14:06 ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:06:31 ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
d_fd_set d_select d_socket i_systime
i_sysselect
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select. Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise. This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select. Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise. This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select. This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
: Make initial guess
case "$selecttype" in

```

```

'| ')
case "$d_fd_set" in
$define) xxx='fd_set *' ;;
*) xxx='int *' ;;
esac
;;
*) xxx="$selecttype"
;;
esac
: backup guess
case "$xxx" in
'fd_set *') yyy='int *'
;;
'int *') yyy='fd_set *' ;;
esac

$cat <<EOM

```

Checking to see what type of arguments are expected by select().

EOM

```

$cat >try.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselect I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main()
{
int width;
Select_fd_set_t readfds;
Select_fd_set_t writefds;
Select_fd_set_t exceptfds;
struct timeval timeout;
select(width, readfds, writefds, exceptfds, &timeout);
exit(0);
}
EOCP
if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
selecttype="$xxx"
echo "Your system uses $xxx for the arguments to select." >&4

```

```

elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
to select?'
  dflt="$xxx"
  ./myread
  selecttype="$ans"
fi
$rm -f try.[co]
;;
*) selecttype='int *'
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/selecttype.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: usecbacktrace.U,v \$

?RCS:

?RCS: Copyright (c) 2014 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: usecbacktrace.U,v \$

?RCS:

?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d\_backtrace

?MAKE: -pick add \$@ %<

?Y:TOP

?S:usecbacktrace:

?S: This variable indicates whether we are compiling with backtrace

?S: support.

?S:.

?C:USE\_C\_BACKTRACE:

?C: This symbol, if defined, indicates that Perl should

?C: be built with support for backtrace.

?C:.

?H:#\$usecbacktrace USE\_C\_BACKTRACE /\*\*/

?H:.

: Check if C backtrace is actually supported.

```

case "$usecbacktrace" in

```

```

  "") usecbacktrace=$undef ;;

```

```

  [yY]*|true|$define)

```

```

    case "$d_backtrace" in

```

```

[yY]*|true|$define)
;;
*)
echo "This system does not support backtrace" >&4
usebacktrace=$undef

;;
esac

;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/usebacktrace.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC /**/
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
if ('M'==0xd4) return 0;
return 1;

```

```

}
EOM

val=$undef
set try
if eval
$compile_ok; then
if $run ./try; then
echo "You seem to speak EBCDIC." >&4
val="$define"
else
echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
fi
else
echo "I'm unable to compile the test program." >&4
echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/ebcdic/ebcdic.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:25:07 ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
```



?S:.  
?C:Mode\_t:  
?C: This symbol holds the type used to declare  
file modes  
?C: for systems calls. It is usually mode\_t, but may be  
?C: int or unsigned short. It may be necessary to include <sys/types.h>  
?C: to get any typedef'ed information.  
?C:.  
?H:#define Mode\_t \$modetype /\* file mode parameter for system calls \*/  
?H:.  
?LINT:set modetype  
: see what type is used for mode\_t  
rp="What is the type used for file modes for system calls (e.g. fchmod())?"  
set mode\_t modetype int stdio.h sys/types.h  
eval \$typedef\_ask

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/modetype.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_stdlib.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:27 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:i\_stdlib: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_stdlib:  
?S: This variable conditionally defines the I\_STDLIB symbol, which  
?S: indicates to the C program that <stdlib.h> exists and should  
?S: be included.  
?S:.  
?C:I\_STDLIB:  
?C: This symbol, if defined, indicates that <stdlib.h> exists and should  
?C: be included.  
?C:.  
?H:#\$i\_stdlib I\_STDLIB /\*\*/  
?H:.

```
?LINT:set
i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_stdlib.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: libnm.U,v $
```

```
?RCS: Revision 3.0.1.1 1997/02/28 16:08:26 ram
```

```
?RCS: patch61: replaced .a with $_a all over the place
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:09:01 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:libnm: test Loc libpth _a
```

```
?MAKE: -pick add $@ %<
```

```
?S:libnm:
```

```
?S: This variable contains the argument to pass to the loader in order
```

```
?S: to get the new math library routines. If there is no new math
```

```
?S: library, it is null.
```

```
?S:.
```

```
?T:ans
```

```
?O:
```

```
use libswanted='-lnm' instead (see libs.U).
```

```
: see if we should include -lnm
```

```
echo " "
```

```
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
```

```
echo "New math library found." >&4
```

```
libnm='-lnm'
```

```
else
```

```
ans=`./loc libnm$_a x $libpth`
```

```
case "$ans" in
```

```
x)
```

```
echo "No nm library found--the normal math library will have to do." >&4
```

```

libnm="
;;
*)
echo "New math library found in $ans." >&4
libnm="$ans"
;;
esac
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/libnm.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: startperl.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:25:06 ram

?RCS: patch61: warn them if the #! line is too long for their OS

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:50 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:startperl: cat rm sharpbang perlpath d\_portable Myread

?MAKE: -pick add \$@ %<

?S:startperl:

?S: This variable contains the string to put on the front of a perl

?S: script to make sure (hopefully) that it runs with perl and not some

?S: shell. Of course, that

leading line must be followed by the classical

?S: perl idiom:

?S: eval 'exec perl -S \$0 \${1+"\$@"}'

?S: if \$running\_under\_some\_shell;

?S: to guarantee perl startup should the shell execute the script. Note

?S: that this magic incantation is not understood by csh.

?S:.

?C:STARTPERL:

?C: This symbol is the string that should be put on the front of a

?C: perl script to make sure (hopefully) that it runs with perl and

?C: not under some shell. That line should be followed by the classical

```

?C: invocation magic:
?C: eval 'exec perl -S $0 ${1+"$@"}'
?C: if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
?H:#define STARTPERL "$startperl"
?H:.
?T:pdfit
?F!:xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
$cat
>xtry <<EOP
#!$perlpath
system("exit 0");
EOP
chmod a+x xtry
if ./xtry >/dev/null 2>&1; then
$cat <<EOH

```

I can use the #! construct to start perl on your system. This will make startup of perl scripts faster, but may cause problems if you want to share those scripts and perl is not in a standard place (/usr/bin/perl) on all your platforms. The alternative is to force a shell by starting the script with a single ':' character.

```

EOH
pdfit=y
else
$cat <<EOH

```

I could use the #! construct to start perl on your system, but using #!\$perlpath would be too long for your kernel to grok. Indeed, most systems do limit the size of the leading #! string to 32 characters.

```

EOH
pdfit=n
fi
$rm -f xtry
case "$startperl" in
*!*) dflt=y;;

```

```

") case "$d_portable" in
"$define") dflt=n;;
*) dflt=$pdflt;;
esac;;
*) dflt=n;;
esac
rp='Shall I use #! to start up perl?'
. ./myread
case "$ans" in
y*|Y*) startperl="#!$perlpath";;
*) startperl=": # use perl";;
esac;;
*) startperl=":
# use perl";;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/startperl.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Extractall.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:00:43 ram

?RCS: patch61: created

?RCS:

?X:

?X: If extraction has been requested, load the configuration file, perform

?X: the extraction and exit.

?X:

?X: This unit was originally a part of Options.U. It had to be removed from

?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract

?X: The Begin.U unit now requires us before beginning to do anything

?X: interesting, to ensure proper semantics. -- RAM, 15/03/96

?X:

?MAKE:Extractall:

Extract Options

?MAKE: -pick wipe \$@ %<

: extract files and exit if asked to do so

```

case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
case "$realsilent" in
true) ;;
*) exec 1>&4;;
esac
case "$config_sh" in
") config_sh='config.sh';;
esac
echo " "
echo "Fetching answers from $config_sh..."
cd ..
. $config_sh
test "$override" && . ./optdef.sh
echo " "
?X: extract has to be run from the top directory, not within UU.
. UU/extract
rm -rf UU
echo "Extraction done."
exit 0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Extractall.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Signal.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:20:01 ram

?RCS: patch61: created

?RCS:

?X:

?X: This unit produces three files:

?X:

?X: 1- A signal.c file, which, when compiled and run, produces an output like:

?X:  
?X: HUP 1  
?X: INT 2  
?X: QUIT 3  
?X: etc...  
?X:  
?X: 2- A signal.awk script to parse the output of signal.c, fill  
?X: in gaps (up to NSIG) and move duplicates to the end.  
?X:  
?X: 3- A signal\_cmd script to compile signal.c and run it  
?X: through sort -n -k 2 | uniq | awk -f signal.awk.  
?X:  
(we try also sort -n +1 since some old hosts don't grok sort -k)  
?X: (This is called signal\_cmd to avoid OS/2 confusion with  
?X: signal.cmd vs. signal.  
?X: The signal\_cmd script also falls back on checking signals one at a  
?X: time in case the signal.c program fails. On at least one version of  
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that  
?X: is not defined by the compiler/linker. :-(. Further, on that same  
?X: version of Linux, the user had a defective C-shell that gave an  
?X: incorrect list for kill -l, so the fall-back didn't work.  
?X:  
?X: This unit is then used by sig\_name.U.  
?X:  
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \  
Findhdr cppstdin +cppflags cppminus Compile trnl run  
?MAKE: -pick add \$@ %<  
?X:all files declared as "public" since they're used from other units  
?F:signal.c signal\_cmd signal.lst signal signal.awk  
?T: xx xxx xxxfiles  
?LINT:use rm run  
: Trace out the files included by signal.h, then look for SIGxxx  
names.  
?X: Remove SIGARRAYSIZE used by HPUX.  
?X: Remove SIGSTKSIZ used by Linux.  
?X: Remove SIGSTKSZ used by Posix.  
?X: Remove SIGTYP void lines used by OS2.  
?X: Some cpps, like os390, dont give the file name anywhere  
if [ "X\$fieldn" = X ]; then  
: Just make some guesses. We check them later.  
xxx='/usr/include/signal.h /usr/include/sys/signal.h'  
else  
xxx=`echo '#include <signal.h>' |  
\$cppstdin \$cppminus \$cppflags 2>/dev/null |  
\$grep '^[ ]\*#.\*include'|  
\$awk '{print \\\$fieldn}' | \$sed 's!'!g' \  
\$sed 's!\\\\\\\\\\\\\\\\!g' | \$sort | \$uniq`  
fi

?X: Check this list of files to be sure we have parsed the cpp output ok.

?X: This will also avoid potentially non-existent files, such

?X: as ../foo/bar.h

xxxfiles=""

?X: Add /dev/null in case the \$xxx list is empty.

for xx in \$xxx /dev/null ; do

  \$test -f "\$xx" && xxxfiles="\$xxxfiles \$xx"

done

?X: If we have found no files, at least try signal.h

case "\$xxxfiles" in

  ") xxxfiles=`./findhdr signal.h` ;;

esac

xxx=`awk '

\$1 ~ /^#define\$/ &&

\$2 ~ /^SIG[A-Z0-9]\*\$/ && \$2 !~ /SIGARRAYSIZE/ && \$2 !~ /SIGSTKSIZE/ && \$2 !~ /SIGSTKSZ/ && \$3 !~

/void/ {

  print substr(\$2, 4, 20)

}

\$1 == "#" && \$2 ~ /^define\$/ && \$3 ~ /^SIG[A-Z0-9]\*\$/ && \$3 !~ /SIGARRAYSIZE/ && \$4 !~ /void/ {

  print substr(\$3, 4, 20)

} '\$xxxfiles'

: Append some common names just in case the awk scan failed.

xxx="\$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"

xxx="\$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"

xxx="\$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"

xxx="\$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"

xxx="\$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later

\$cat > signal.c <<<'EOCP'

#include <sys/types.h>

#include <signal.h>

#include <stdio.h>

int main() {

/\* Strange style to avoid deeply-nested #if/#else/#endif \*/

#ifndef NSIG

#  ifdef \_NSIG

#    define NSIG (\_NSIG)

#  endif

#endif

#ifndef NSIG

#  ifdef SIGMAX

#    define NSIG (SIGMAX+1)

#  endif

#endif



```

#ifndef NSIG
# ifdef SIG_MAX
#
#   define NSIG (SIG_MAX+1)
# endif
#endif

#ifndef NSIG
# ifdef MAXSIG
#   define NSIG (MAXSIG+1)
# endif
#endif

#ifndef NSIG
# ifdef MAX_SIG
#   define NSIG (MAX_SIG+1)
# endif
#endif

#ifndef NSIG
# ifdef SIGARRAYSIZE
#   define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
# endif
#endif

#ifndef NSIG
# ifdef _sys_nsig
#   define NSIG (_sys_nsig) /* Solaris 2.5 */
# endif
#endif

/* Default to some arbitrary number that's big enough to get most
of the common signals.
*/
#ifndef NSIG
#   define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
printf "#ifndef SIG"; printf $1; printf "\n"
printf "printf(\""; printf $1; printf " %%d\\n\",SIG";

```

```

printf $1; printf ");\n"
printf "#endif\n"
}
END {
printf "#endif /* JUST_NSIG */\n";
printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
    if ($2 >
maxsig) { maxsig = $2 }
    if (sig_name[$2]) {
dup_name[ndups] = $1
dup_num[ndups] = $2
ndups++
    }
    else {
sig_name[$2] = $1
sig_num[$2] = $2
    }
}
END {
    if (nsig == 0) {
        nsig = maxsig + 1
    }
    printf("NSIG %d\n", nsig);
    for (n = 1; n < nsig; n++) {
if (sig_name[n]) {
        printf("%s %d\n", sig_name[n], sig_num[n])
    }
    else {
        printf("NUM%d %d\n", n, n)
    }
    }
    for (n = 0; n < ndups; n++) {
printf("%s %d\n", dup_name[n], dup_num[n])
    }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
    echo "Using your existing signal.lst file"
exit 0
fi

```

```

xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
  $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) | \
  $uniq | $awk -f signal.awk >signal.lst
else
  echo "(I can't seem be able to compile the whole test program)" >&4
  echo "(I'll try it in little
  pieces.)" >&4
  set signal -DJUST_NSIG
  if eval $compile_ok; then
    $run ./signal$_exe > signal.nsg
    $cat signal.nsg
  else
    echo "I can't seem to figure out how many signals you have." >&4
    echo "Guessing 50." >&4
    echo 'NSIG 50' > signal.nsg
  fi
: Now look at all the signal names, one at a time.
for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
    echo "SIG${xx} found."
    $run ./signal$_exe >> signal.lst1
  else
    echo "SIG${xx} NOT found."
  fi
done
if $test -s signal.lst1; then
  $cat signal.nsg signal.lst1 |
  $sort -n | $uniq | $awk -f signal.awk >signal.lst
fi

fi

```

```

if $test -s signal.lst; then
:
else
echo "(AAK! I can't compile the test programs -- Guessing)" >&4
echo 'kill -l' >signal
set X `csh -f <signal`
$rm -f signal
shift
case $# in
0) set HUP INT QUIT ILL TRAP ABRT
EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
esac
echo $@ | $tr ' ' $trnl | \
    $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$seunicefix signal_cmd

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Signal.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: siteprefix.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix

?MAKE: -pick add \$@ %<

?S:siteprefix:

?S: This variable holds the full absolute path of the directory below

?S: which the user will install add-on packages.

?S: See INSTALL for usage and examples.

?S:.

?S:siteprefixexp:

?S: This variable holds the full absolute path of the directory below  
 ?S: which the user will install add-on packages. Derived from siteprefix.  
 ?S:.  
 ?S:oldsiteprefix:  
 ?S: This variable is set non-null if the siteprefix was previously defined  
 ?S: and gets set to a new value. Used internally by Configure only.  
 ?S:.  
 : Set the siteprefix variables  
 \$cat <<EOM

After \$package is installed, you may wish to install various add-on modules and utilities. Typically, these add-ons will be installed under \$prefix with the rest of this package. However, you may wish to install such add-ons elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's ok. You will be prompted for the individual locations; this siteprefix is only used to suggest the defaults.

The default should be fine for most people.

```
EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
  ") dflt=$prefix ;;
  *) dflt=$siteprefix
  ;;
esac
./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix="
case "$siteprefix" in
  ") ;;
  *) case "$ans" in
    "$prefix") ;;
    *) oldsiteprefix="$prefix";;
  esac
  ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/installdirs/siteprefix.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: i\_dirent.U,v \$

?RCS: Revision 3.0.1.4 1994/10/29 16:20:01 ram

?RCS: patch36: failed scanning for 'd\_namlen' with missing <dirent.h> (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:01:25 ram

?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)

?RCS: patch30: now checks for both struct dirent and direct (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/05/13 15:22:37 ram

?RCS: patch27: new variable direntrytype for proper type setting (ADO)

?RCS:

?RCS:

Revision 3.0.1.1 1994/01/24 14:11:15 ram

?RCS: patch16: added new Direntry\_t pseudo-type for directory entries

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:17 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit looks whether there is a dirent system or not

?X:

?MAKE:i\_dirent d\_dirnamlen direntrytype: test contains Setvar \

Myread Findhdr cppstdin cppflags cppminus rm\_try

?MAKE: -pick add \$@ %<

?S:i\_dirent:

?S: This variable conditionally defines I\_DIRENT, which indicates

?S: to the C program that it should include <dirent.h>.

?S:.

?S:d\_dirnamlen:

?S: This variable conditionally defines DIRNAMLEN, which indicates

?S: to the C program that the length of directory entry names is

?S: provided by a d\_namelen field.

?S:.

?S:direntrytype:

?S: This symbol is set to 'struct direct' or 'struct dirent' depending on

?S: whether dirent is available or not. You should use this pseudo type to

?S: portably declare your directory entries.

?S:.

?C:I\_DIRENT:

?C: This symbol,

if defined, indicates to the C program that it should

?C: include <dirent.h>. Using this symbol also triggers the definition

?C: of the Direntry\_t define which ends up being 'struct dirent' or

?C: 'struct direct' depending on the availability of <dirent.h>.

?C:.

?C:DIRNAMLEN:

?C: This symbol, if defined, indicates to the C program that the length

?C: of directory entry names is provided by a d\_namlen field. Otherwise

?C: you need to do strlen() on the d\_name field.

?C:.

?C:Direntry\_t:

?C: This symbol is set to 'struct direct' or 'struct dirent' depending on

?C: whether dirent is available or not. You should use this pseudo type to

?C: portably declare your directory entries.

?C:.

?H:#\$i\_dirent I\_DIRENT /\*\*/

?H:#\$d\_dirnamlen DIRNAMLEN /\*\*/

?H:%<:@if I\_DIRENT && Direntry\_t

?H:%<:#define Direntry\_t \$direntrytype

?H:%<:@end

?H:.

?T:xinc guess1 guess2

?LINT:set i\_dirent d\_dirnamlen

: see if this is a dirent system

echo " "

if xinc=`./findhdr dirent.h`; \$test "\$xinc"; then

val="\$define"

echo

"<dirent.h> found." >&4

else

val="\$undef"

if xinc=`./findhdr sys/dir.h`; \$test "\$xinc"; then

echo "<sys/dir.h> found." >&4

echo " "

else

xinc=`./findhdr sys/ndir.h`

fi

echo "<dirent.h> NOT found." >&4

fi

set i\_dirent

eval \$setvar

?X: Use struct dirent or struct direct? If we're using dirent.h,

```

?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
'|')
case "$i_dirent" in
$define) guess1='struct dirent' ;;
*) guess1='struct direct' ;;
esac
;;
*) guess1="$direntrytype"
;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
direntrytype="$guess1"
echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
try.c >/dev/null 2>&1; then
direntrytype="$guess2"
echo "Your directory entries seem to be $direntrytype." >&4
else
echo "I don't recognize your system's directory entries." >&4
rp="What type is used for directory entries on this system?"
dflt="$guess1"
./myread
direntrytype="$ans"
fi
$rm_try

@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
echo "Good, your directory entry keeps length information in d_namlen." >&4
val="$define"
else

```



```
echo "Your directory entry does not know about the d_namlen field." >&4
val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_dirent.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getmntent: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_getmntent:

?S: This variable conditionally defines the HAS\_GETMNTENT symbol, which

?S: indicates to the C program that the getmntent() routine is available

?S: to iterate through mounted files to get their mount info.

?S:.

?C:HAS\_GETMNTENT:

?C: This symbol, if defined, indicates that the getmntent routine is

?C: available to iterate through mounted file systems to get their info.

?C:.

?H:#\$d\_getmntent HAS\_GETMNTENT /\*\*/

?H:.

?LINT:set d\_getmntent

: see if getmntent exists

set getmntent d\_getmntent

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_getmntent.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: nlist\_pfx.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: nlist\_pfx.U,v \$  
?RCS: Revision 3.0.1.1 1994/10/29 16:26:18 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:25 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:nlist\_pfx nlist\_fnd: cat test Myread Oldconfig libnlist \  
+cc +ccflags  
?MAKE: -pick add \$@ %<  
?S:nlist\_pfx:  
?S: This variable holds any characters which precede the symbol name  
?S: when doing an nlist search.  
?S:.  
?S:nlist\_fnd:  
?S: This  
variable holds the member of the nlist structure which is  
?S: nonzero if an nlist search succeeds. Presently, it is always "n\_value".  
?S:.  
?C:NLIST\_PREFIX:  
?C: This manifest constant holds the string of characters which should  
?C: precede the symbol name when doing an nlist search.  
?C:.  
?C:NLIST\_FOUND:  
?C: This manifest constant holds the member of the nlist structure which  
?C: is nonzero if an nlist search succeeds.  
?C:.  
?H:#define NLIST\_PREFIX \$nlist\_pfx /\*\*/  
?H:#define NLIST\_FOUND \$nlist\_fnd /\*\*/  
?H:.  
?F:!nlisttest  
?T:nlist\_loc  
: Nose around for nlist stuff  
echo " "  
echo "Checking out nlist stuff..." >&4  
\$cat >nlisttest.c <<'EOCP'  
#include <stdio.h>  
#include <nlist.h>  
  
main(argc, argv)  
int argc;  
char \*\*argv;

```

{
int (*loc)();
extern int hereIam();
static struct nlist nl[] = {
    { "IamNotFound", 0 },
    { "hereIam", 0 },
    { "_hereIam", 0 },
    { ".hereIam", 0 },
    { "", 0 }
};

loc = hereIam;

if(argc == 1) {
    printf("%ld\n", loc);}
else {
    int i;
    int rc;

    if(nlist("./nlisttest",
nl) == -1) exit(-1);
    i = argv[1][0] - '0';
    printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
    }
    exit(0);}

int hereIam() {

    return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
set `./nlisttest`
nlist_loc=$1

set `./nlisttest 0`
if $test "$3" = "0" ; then
    echo "$nlist_fnd is 0 if nlist() fails, as I expected."
else
    $cat <<EOM
Hello, Jim. We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure! Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police. Of course, should you fail...
EOM
nlist_fnd="/* Bletch! */ /*/"
fi

```

```

set `./nlisttest 1`
if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
  nlist_pfx=
else
  set `./nlisttest 2`
  if
$test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with an initial underscore."
  nlist_pfx=_
else
  set `./nlisttest 3`
  if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
  else
    $cat <<EOM

```

I can't figure out the symbol prefix!

You get to edit config.sh and fix 'nlist\_pfx' (Configure will let you do this at the end of its configuration questions), or config.h and fix the value of the NLIST\_PREFIX symbol.

EOM

```

  nlist_pfx="/* Blech! */ /*/"
  fi
  fi
  fi
else
$cat <<EOM

```

I can't get the nlist test program working!

You get to edit config.sh and fix 'nlist\_pfx' (Configure will let you do this at the end of its configuration questions) and 'nlist\_fnd', or config.h and fix the value of the NLIST\_PREFIX and NLIST\_FOUND symbols.

EOM

```

  nlist_pfx="/* Blech! */ /*/"
  nlist_fnd="/* Blech! */ /*/"
  fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/nlist_pfx.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_table.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_table.U,v \$

?RCS: Revision 3.0.1.2 1993/11/10 17:34:14 ram

?RCS: patch14: wrongly mentionned an obsolete symbol

?RCS:

?RCS: Revision 3.0.1.1 1993/10/16 13:49:29 ram

?RCS: patch12: created

?RCS:

?MAKE:d\_table: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_table:

?S: This variable conditionally defines HAS\_TABLE if table() is

?S: available to examine/update elements from a system table.

?S:.

?C:HAS\_TABLE:

?C: This symbol, if defined, indicates that the OSF/1  
table() system

?C: call is available to examine/update items from a system table.

?C:.

?H:#\$d\_table HAS\_TABLE /\*\*/

?H:.

?LINT:set d\_table

: see if table exists

set table d\_table

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_table.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: This file is included with or a derivative work of a file included

?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: patchlevel.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:31 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:patchlevel revision version subversion \  
perl\_patchlevel version\_patchlevel\_string \  
api\_revision api\_version api\_subversion api\_versionstring: \  
package test rsrc echo awk osname

?MAKE: -pick  
add \$@ %<

?S:revision:

?S: The value of revision comes from the patchlevel.h file.

?S: In a version number such as 5.6.1, this is the "5".

?S: In patchlevel.h, this is referred to as "PERL\_REVISION".

?S:.

?S:patchlevel:

?S: The patchlevel level of this package.

?S: The value of patchlevel comes from the patchlevel.h file.

?S: In a version number such as 5.6.1, this is the "6".

?S: In patchlevel.h, this is referred to as "PERL\_VERSION".

?S:.

?S:subversion:

?S: The subversion level of this package.

?S: The value of subversion comes from the patchlevel.h file.

?S: In a version number such as 5.6.1, this is the "1".

?S: In patchlevel.h, this is referred to as "PERL\_SUBVERSION".

?S: This is unique to perl.

?S:.

?S:version:

?S: The full version number of this package, such as 5.6.1 (or 5\_6\_1).

?S: This combines revision, patchlevel, and subversion to get the

?S: full version number, including any possible subversions.

?S: This is suitable for use as a directory name, and hence is

?S: filesystem

dependent.

?S:.

?S:api\_revision:

?S: The three variables, api\_revision, api\_version, and

?S: api\_subversion, specify the version of the oldest perl binary

?S: compatible with the present perl. In a full version string

?S: such as '5.6.1', api\_revision is the '5'.

?S: Prior to 5.5.640, the format was a floating point number,

?S: like 5.00563.

?S:

?S: perl.c:incpush() and lib/lib.pm will automatically search in

?S: \$sitelib/.. for older directories back to the limit specified

?S: by these api\_ variables. This is only useful if you have a

?S: perl library directory tree structured like the default one.  
?S: See INSTALL for how this works. The versioned site\_perl  
?S: directory was introduced in 5.005, so that is the lowest  
?S: possible value. The version list appropriate for the current  
?S: system is determined in inc\_version\_list.U.  
?S:  
?S: XXX To do: Since compatibility can depend on compile time  
?S: options (such as bincompat, longlong, etc.) it should  
?S: (perhaps) be set by  
?S: Configure, but currently it isn't.  
?S: Currently, we read a hard-wired value from patchlevel.h.  
?S: Perhaps what we ought to do is take the hard-wired value from  
?S: patchlevel.h but then modify it if the current Configure  
?S: options warrant. patchlevel.h then would use an #ifdef guard.  
?S:.  
?S:api\_version:  
?S: The three variables, api\_revision, api\_version, and  
?S: api\_subversion, specify the version of the oldest perl binary  
?S: compatible with the present perl. In a full version string  
?S: such as '5.6.1', api\_version is the '6'. See api\_revision for  
?S: full details. As a special case, 5.5.0 is rendered in the  
?S: old-style as 5.005. (In the 5.005\_0x maintenance series,  
?S: this was the only versioned directory in \$sitelib.)  
?S:.  
?S:api\_subversion:  
?S: The three variables, api\_revision, api\_version, and  
?S: api\_subversion, specify the version of the oldest perl binary  
?S: compatible with the present perl. In a full version string  
?S: such as '5.6.1', api\_subversion is the  
?S: '1'. See api\_revision for  
?S: full details.  
?S:.  
?S:api\_versionstring:  
?S: This variable combines api\_revision, api\_version, and  
?S: api\_subversion in a format such as 5.6.1 (or 5\_6\_1) suitable  
?S: for use as a directory name. This is filesystem dependent.  
?S:.  
?S:perl\_patchlevel:  
?S: This is the Perl patch level, a numeric change identifier,  
?S: as defined by whichever source code maintenance system  
?S: is used to maintain the patches; currently Perforce.  
?S: It does not correlate with the Perl version numbers or  
?S: the maintenance versus development dichotomy except  
?S: by also being increasing.  
?S:.  
?S:version\_patchlevel\_string:  
?S: This is a string combining version, subversion and  
?S: perl\_patchlevel (if perl\_patchlevel is non-zero).

```

?S: It is typically something like
?S: 'version 7 subversion 1' or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
  get the patchlevel
  echo " "
  echo "Getting the current patchlevel..." >&4
  if $test -r $src/patchlevel.h;then
    revision=`awk '/define[ ]+PERL_REVISION/ {print $3}' $src/patchlevel.h`
    patchlevel=`awk '/define[ ]+PERL_VERSION/ {print $3}' $src/patchlevel.h`
    subversion=`awk '/define[ ]+PERL_SUBVERSION/ {print $3}' $src/patchlevel.h`
    api_revision=`awk '/define[ ]+PERL_API_REVISION/ {print $3}' $src/patchlevel.h`
    api_version=`awk '/define[ ]+PERL_API_VERSION/ {print $3}' $src/patchlevel.h`
    api_subversion=`awk '/define[ ]+PERL_API_SUBVERSION/ {print $3}' $src/patchlevel.h`
    perl_patchlevel=`egrep ',(MAINT|SMOKE)[0-9][0-9]*"' $src/patchlevel.h|tail -1|sed 's/[^0-9]//g`
  else
    revision=0
    patchlevel=0
    subversion=0
    api_revision=0
    api_version=0
    api_subversion=0
    perl_patchlevel=0
    $echo "(You do not have patchlevel.h. Eek.)"
  fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
"$perl_patchlevel" in
0|") ;;
*) perl_patchlevel=`echo $perl_patchlevel | sed 's/.*/'"
  version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
  ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
: XXX Should be a Configure test for double-dots in filenames.
version=`echo $revision $patchlevel $subversion | \
  $awk '{ printf "%d_%d_%d", $1, $2, $3 }`
api_versionstring=`echo $api_revision $api_version $api_subversion | \

```



```

    Sawk '{ printf "%d_%d_%d", $1, $2, $3 }'`
;;
*)
version=`echo $revision $patchlevel $subversion | \
    Sawk '{ printf "%d.%d.%d", $1, $2, $3 }'`
api_versionstring=`echo $api_revision $api_version $api_subversion | \
    Sawk '{ printf "%d.%d.%d", $1, $2, $3 }'`
;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
    api_versionstring='5.005'
fi

```

Found

in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/patchlevel.U

```

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?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strlcpy: Inlibc Hasproto d\_gnulibc

?MAKE: -pick add \$@ %<

?S:d\_strlcpy:

?S: This variable conditionally defines the HAS\_STRLCPY symbol, which

?S: indicates to the C program that the strlcpy () routine is available.

?S:.

?C:HAS\_STRLCPY:

?C: This symbol, if defined, indicates that the strlcpy () routine is

?C: available to do string copying.

?C:.

?H:#\$d\_strlcpy HAS\_STRLCPY /\*\*/

?H:.

?T:d\_strlcpy\_proto xx1 xx2 xx3 xx4

?LINT:set d\_strlcpy

: see if strlcpy exists

: We need both a prototype in string.h and the symbol in libc.

echo " "

d\_strlcpy\_proto="

xx1="#\$d\_gnulibc HAS\_GNULIBC"

xx2="#if defined(HAS\_GNULIBC) && !defined(\_GNU\_SOURCE)'

```

xx3='# define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
  define) # see if strlcpy exists
set strlcpy d_strlcpy
eval $inlibc
;;
  *) val=$undef
set d_strlcpy
eval $setvar
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strlcpy.U

```

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: man3dir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:10:34 ram

?RCS: patch61: created

?RCS:

?X:

?X: This was originally specific to perl5. Since perl5 has man pages that

?X: go in both man1/ and man3/ directories, we need both man1dir

?X: and man3dir. This unit is basically dist's mansrc.U with

?X: man3 used instead of man everywhere.

?X: I then added various tests because perl5 has \*lots\* of man3

?X: pages with long file names. -- ADO

?X:

?MAKE:man3dir

man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \

sed man1dir package package Getfile prefix Prefixit Prefixup \

d\_flexfnam privlib Myread

```

?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
?S: page should
?S: have: one of 'n', 'l', or '3'. The Makefile must supply the '!'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
$cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
case "$man3dir" in
") man3dir="none";;
esac;;
esac

case "$d_flexfnam" in
undef)
$cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
case "$man3dir" in

```

```

") man3dir="none";;
esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command. We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
is fine.
case "$man3dir" in
") case "$prefix" in
*$package*) dflt=`echo $man1dir |
  $sed -e 's/man1/man3/g' -e 's/man\./1/man\./3/g` ;;
*) dflt="$privlib/man/man3" ;;
esac
;;
') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

```

```

fn=dn+~
rp="Where do the $package library man pages (source) go?"
./getfile
if test "X$man3direxp" != "X$ansexp"; then
installman3dir="
fi

```

```

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
installman3dir=";;
esac
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installman3dir" in
") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#`";;
*) dflt="$installman3dir";;
esac

```

```

fn=de~
rp='Where will man pages be installed?'
./getfile
installman3dir="$ans"
else
installman3dir="$man3direxp"
fi

: What suffix
to use on installed man pages

case "$man3dir" in
')
man3ext='0'
;;
*)
rp="What suffix should be used for the $package library man pages?"
case "$man3ext" in
") case "$man3dir" in
*3) dflt=3 ;;
*3p) dflt=3p ;;
*3pm) dflt=3pm ;;
*1) dflt=1;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L3) dflt=L3;;
*) dflt=3;;
esac
;;
*) dflt="$man3ext";;
esac
./myread
man3ext="$ans"
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/man3dir.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_semctl.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_semctl.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:04 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_semctl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_semctl:

?S: This variable conditionally defines the HAS\_SEMCTL symbol, which

?S: indicates to the C program that the semctl() routine is available.

?S:.

?C:HAS\_SEMCTL:

?C: This symbol, if defined, indicates that the semctl() routine is

?C: available to perform semaphore control operations.

?C:.

?H:#\$d\_semctl

HAS\_SEMCTL /\*\*/

?H:.

?LINT:set d\_semctl

: see if semctl exists

set semctl d\_semctl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_semctl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getnetbyname\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getnetbyname\_r getnetbyname\_r\_proto: Inlibc Protochk Hasproto \  
i\_systypes usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getnetbyname\_r:

?S: This variable conditionally defines the HAS\_GETNETBYNAME\_R symbol,

?S: which indicates to the C program that the getnetbyname\_r()

?S: routine is available.

```

?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getnetbyname_r_proto:$usethreads" in
":define") d_getnetbyname_r_proto=define
set d_getnetbyname_r_proto getnetbyname_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getnetbyname_r_proto" in
define)
case "$getnetbyname_r_proto" in
"|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$$extern_C
$try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
esac
case "$getnetbyname_r_proto" in
"|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
./protochk "$$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
esac
case "$getnetbyname_r_proto" in
"|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
./protochk "$$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;

```

```

esac
case "$getnetbyname_r_proto" in
"|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
esac
case "$getnetbyname_r_proto" in
"|0) d_getnetbyname_r=undef
getnetbyname_r_proto=0
echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
*) case "$getnetbyname_r_proto" in
REENTRANT_PROTO*) ;;
*) getnetbyname_r_proto="REENTRANT_PROTO_${getnetbyname_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo
"getnetbyname_r has no prototype, not using it." >&4 ;;
esac
d_getnetbyname_r=undef
getnetbyname_r_proto=0
;;
esac
;;
*) getnetbyname_r_proto=0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_getnetbyname_r.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4 1997/02/28 15:40:58 ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove

```



```

?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3 1995/07/25 13:58:40 ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2 1995/01/11 15:29:23 ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
Revision 3.0.1.1 1994/05/06 14:49:03 ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:58 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies. Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
"$define")
echo "Checking to see if bcopy() can do overlapping copies..." >&4
$cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD

```

```

EOCP
$cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
# include <memory.h>
#endif
#ifdef I_STDLIB
# include <stdlib.h>
#endif
#ifdef I_STRING
# include <string.h>
#else
# include <strings.h>
#endif
#ifdef I_UNISTD
# include <unistd.h> /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
   try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxy0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
for (len = 36; len; len--) {
b = buf+align;
bcopy(abc, b, len);
for (off = 1; off <= len; off++) {
bcopy(b, b+off, len);
bcopy(b+off,
b, len);
if (bcmp(b, abc, len))
exit(1);
}
}
}
exit(0);
}
EOCP
set try
if eval $compile_ok; then
if $run ./try 2>/dev/null; then

```

```
echo "Yes, it can."
val="$define"
else
echo "It can't, sorry."
fi
else
echo "(I can't compile the test program, so we'll assume not...)"
fi
;;
esac
$rm_try
;;
esac
set d_safebcpy
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_safebcpy.U
```

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Tye McQueen <tye@metronet.com>

?RCS:

?RCS: \$Log: d\_stdstdio.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:46:32 ram

?RCS: patch61: merged with perl5's unit

?RCS:

?RCS: Revision 3.0.1.2 1995/07/25 14:06:54 ram

?RCS: patch56: typo fix on ?C: line for FILE\_bufsiz

?RCS: patch56: fixed unbalanced parenthesis (ADO)

?RCS: patch56: check whether FILE\_cnt and FILE\_ptr can be assigned to (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1995/05/12 12:12:11 ram

?RCS: patch54: complete rewrite by Tye McQueen  
to fit modern systems

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:31 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_stdstdio d\_stdiobase stdio\_ptr stdio\_cnt stdio\_base \  
stdio\_bufsiz d\_stdio\_cnt\_lval d\_stdio\_ptr\_lval stdio\_filbuf: cat \  
+cc +ccflags contains +ldflags +libs rm\_try \  
Setvar Findhdr Oldconfig

?MAKE: -pick add \$@ %<

?S:d\_stdstdio:

?S: This variable conditionally defines USE\_STDIO\_PTR if this system  
?S: has a FILE structure declaring usable \_ptr and \_cnt fields (or  
?S: equivalent) in stdio.h.

?S:.

?S:stdio\_ptr:

?S: This variable defines how, given a FILE pointer, fp, to access the  
?S: \_ptr field (or equivalent) of stdio.h's FILE structure. This will  
?S: be used to define the macro FILE\_ptr(fp).

?S:.

?S:d\_stdio\_ptr\_lval:

?S: This variable conditionally defines STDIO\_PTR\_LVALUE if the  
?S: FILE\_ptr macro can be used as an lvalue.

?S:.

?S:stdio\_cnt:

?S: This variable defines how, given a FILE pointer, fp, to access the  
?S: \_cnt field (or equivalent) of  
stdio.h's FILE structure. This will  
?S: be used to define the macro FILE\_cnt(fp).

?S:.

?S:d\_stdio\_cnt\_lval:

?S: This variable conditionally defines STDIO\_CNT\_LVALUE if the  
?S: FILE\_cnt macro can be used as an lvalue.

?S:.

?S:stdio\_filbuf:

?S: This variable defines how, given a FILE pointer, fp, to tell  
?S: stdio to refill it's internal buffers (?). This will  
?S: be used to define the macro FILE\_filbuf(fp).

?S:.

?S:d\_stdiobase:

?S: This variable conditionally defines USE\_STDIO\_BASE if this system  
?S: has a FILE structure declaring a usable \_base field (or equivalent)  
?S: in stdio.h.

?S:.

?S:stdio\_base:

?S: This variable defines how, given a FILE pointer, fp, to access the  
?S: \_base field (or equivalent) of stdio.h's FILE structure. This will  
?S: be used to define the macro FILE\_base(fp).

?S:.

?S:stdio\_bufsiz:

?S: This variable defines how, given a FILE pointer, fp, to determine  
?S: the number of bytes store in the I/O buffer pointer to by the

?S: \_base field (or equivalent) of stdio.h's FILE structure. This will

?S: be used to define the macro FILE\_bufsiz(fp).

?S:.

?C:USE\_STDIO\_PTR ~ d\_stdstdio (USE\_STD\_STDIO STDSTDIO):

?C: This symbol is defined if the \_ptr and \_cnt fields (or similar)

?C: of the stdio FILE structure can be used to access the stdio buffer

?C: for a file handle. If this is defined, then the FILE\_ptr(fp)

?C: and FILE\_cnt(fp) macros will also be defined and should be used

?C: to access these fields.

?C:.

?C:FILE\_ptr:

?C: This macro is used to access the \_ptr field (or equivalent) of the

?C: FILE structure pointed to by its argument. This macro will always be

?C: defined if USE\_STDIO\_PTR is defined.

?C:.

?C:STDIO\_PTR\_LVALUE:

?C: This symbol is defined if the FILE\_ptr macro can be used as an

?C: lvalue.

?C:.

?C:FILE\_cnt:

?C: This macro is used to access the \_cnt field (or equivalent) of the

?C: FILE structure pointed to by its argument. This macro will always be

?C: defined if USE\_STDIO\_PTR is defined.

?C:.

?C:STDIO\_CNT\_LVALUE:

?C: This symbol is defined

?C: if the FILE\_cnt macro can be used as an

?C: lvalue.

?C:.

?C:FILE\_filbuf:

?C: This macro is used to access the internal stdio \_filbuf function

?C: (or equivalent), if STDIO\_CNT\_LVALUE and STDIO\_PTR\_LVALUE

?C: are defined. It is typically either \_filbuf or \_\_filbuf.

?C: This macro will only be defined if both STDIO\_CNT\_LVALUE and

?C: STDIO\_PTR\_LVALUE are defined.

?C:.

?H:?d\_stdstdio:#\$d\_stdstdio USE\_STDIO\_PTR /\*\*/

?H:?d\_stdstdio:#ifdef USE\_STDIO\_PTR

?H:#define FILE\_ptr(fp) \$stdio\_ptr

?H:#\$d\_stdio\_ptr\_lval STDIO\_PTR\_LVALUE /\*\*/

?H:#define FILE\_cnt(fp) \$stdio\_cnt

?H:#\$d\_stdio\_cnt\_lval STDIO\_CNT\_LVALUE /\*\*/

?H:?d\_stdstdio:#if defined(STDIO\_PTR\_LVALUE) && defined(STDIO\_CNT\_LVALUE)

?H:#define FILE\_filbuf(fp) \$stdio\_filbuf /\*\*/

?H:?d\_stdstdio:#endif

?H:?d\_stdstdio:#endif

?H:.

```

?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdibase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
for
?C: a file handle. If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer. USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdibase:#$d_stdibase USE_STDIO_BASE /**/
?H:?d_stdibase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdibase:#endif
?H:.
?W:d_stdibase:FILE_base
FILE_bufsiz
?LINT:set d_stdstdio d_stdibase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
echo "(Looks like you have stdio.h from Linux.)"
case "$stdio_ptr" in
") stdio_ptr='((fp)->_IO_read_ptr)'
ptr_lval=$define
;;
*) ptr_lval=$d_stdio_ptr_lval;;
esac
case "$stdio_cnt" in
") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
cnt_lval=$undef
;;
*) cnt_lval=$d_stdio_cnt_lval;;

```

```

esac
case "$stdio_base" in
") stdio_base='((fp)->_IO_read_base)';;
esac
case "$stdio_bufsiz" in
") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
esac
else
case "$stdio_ptr" in
") stdio_ptr='((fp)->_ptr)'
ptr_lval=$define
;;
*) ptr_lval=$d_stdio_ptr_lval;;
esac
case "$stdio_cnt" in
") stdio_cnt='((fp)->_cnt)'
cnt_lval=$define
;;
*) cnt_lval=$d_stdio_cnt_lval;;
esac
case "$stdio_base" in
") stdio_base='((fp)->_base)';;
esac
case
"$stdio_bufsiz" in
") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
esac
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
FILE *fp = fopen("try.c", "r");
char c = getc(fp);
if (
18 <= FILE_cnt(fp) &&
strcmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
)
exit(0);
exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
if ./try; then

```

```

echo "Your stdio acts pretty std."
val="$define"
else
echo "Your stdio isn't very std."
fi
else
echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
$setvar

@end

@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
: Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
: _fill is for OS/2.
xxx='notok'
for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp)' '_fill(fp)' ; do
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt

```



```

#define FILE_filbuf(fp) $filbuf
int main() {
FILE *fp = fopen("try.c", "r");
int c;
c = getc(fp);
c = FILE_filbuf(fp); /* Just looking for linker errors.*/
exit(0);
}
EOP
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
./try; then
echo "Your stdio appears to use $filbuf"
stdio_filbuf="$filbuf"
xxx='ok'
break
else
echo "Hmm. $filbuf doesn't seem to work."
fi
$rm_try
done
case "$xxx" in
notok) echo "I can't figure out how to access _filbuf"
echo "I'll just have to work around it."
d_stdio_ptr_lval="$undef"
d_stdio_cnt_lval="$undef"
;;
esac
;;
esac
@end
@if d_stdibase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
FILE *fp = fopen("try.c", "r");
char c = getc(fp);
if (
19 <= FILE_bufsiz(fp) &&
strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
)
exit(0);
exit(1);

```

```

}
EOP
if $cc $cflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
    echo "And its _base field acts std."
    val="$define"
  else
    echo "But its _base field isn't std."
  fi
else
  echo
  "However, it seems to be lacking the _base field."
fi
$rm_try
;;
esac
set d_stdibase
eval $setvar

```

@end

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_stdstdio.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgetpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgetpgrp.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:12:08 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
```

?S:.  
?C:HAS\_TCGETPGRP  
:  
?C: This symbol, if defined, indicates that the tcgetpgrp routine is  
?C: available to get foreground process group ID.  
?C:.  
?H:#\$d\_tcgetpgrp HAS\_TCGETPGRP /\*\*/  
?H:.  
?LINT:set d\_tcgetpgrp  
: see if tcgetpgrp exists  
set tcgetpgrp d\_tcgetpgrp  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_tcgtpgrp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1998 Andy Dougherty  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_setvbuf.U,v \$  
?RCS:  
?MAKE:d\_setvbuf: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_setvbuf:  
?S: This variable conditionally defines the HAS\_SETVBUF symbol, which  
?S: indicates to the C program that the setvbuf() routine is available  
?S: to change buffering on an open stdio stream.  
?S:.  
?C:HAS\_SETVBUF :  
?C: This symbol, if defined, indicates that the setvbuf routine is  
?C: available to change buffering on an open stdio stream.  
?C: to a line-buffered mode.  
?C:.  
?H:#\$d\_setvbuf HAS\_SETVBUF /\*\*/  
?H:.  
?LINT:set d\_setvbuf  
: see if setvbuf exists  
set setvbuf d\_setvbuf  
eval \$inlibc

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_setvbuf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_castneg.U,v \$

?RCS: Revision 3.0.1.2 1995/05/12 12:11:21 ram

?RCS: patch54: made sure cc and ccflags are conditional dependencies

?RCS: patch54: added improved test case for Interactive Unix

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:10:50 ram

?RCS: patch36: don't forget to tell user about compilation failures (ADO)

?RCS: patch36: declare signal handler correctly using 'signal\_t' (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:47 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Can

the compiler cast negative / odd floats to unsigned values.

?X:

?MAKE:d\_castneg castflags: cat +cc +ccflags rm\_try Setvar signal\_t

?MAKE: -pick add \$@ %<

?S:d\_castneg:

?S: This variable conditionally defines CASTNEG, which indicates

?S: whether the C compiler can cast negative float to unsigned.

?S:.

?S:castflags:

?S: This variable contains a flag that precise difficulties the

?S: compiler has casting odd floating values to unsigned long:

?S: 0 = ok

?S: 1 = couldn't cast < 0

?S: 2 = couldn't cast >= 0x80000000

?S: 4 = couldn't cast in argument expression list

?S:.

?C:CASTNEGFLOAT:

?C: This symbol is defined if the C compiler can cast negative

```

?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C: 0 = ok
?C: 1 = couldn't cast < 0
?C: 2 = couldn't cast >= 0x80000000
?C: 4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT /**/
?H:#define
    CASTFLAGS $castflags /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
{
    double f = -123.;
    unsigned long along;
    unsigned int aint;
    unsigned short ashort;
    int result = 0;

    signal(SIGFPE, blech);
    along = (unsigned long)f;
    aint = (unsigned int)f;
    ashort = (unsigned short)f;
    if (along != (unsigned long)-123)
        result |= 1;
    if (aint != (unsigned int)-123)
        result |= 1;
    if (ashort != (unsigned short)-123)
        result |= 1;
    f = (double)0x40000000;
    f = f + f;
    along = 0;

```

```

along = (unsigned long)f;
if
(along != 0x80000000)
    result |= 2;
f -= 1.;
along = 0;
along = (unsigned long)f;
if (along != 0x7fffffff)
    result |= 1;
f += 2.;
along = 0;
along = (unsigned long)f;
if (along != 0x80000001)
    result |= 2;
if (result)
    exit(result);
?X:

```

?X: The following is a test for Interactive Unix Version 4.1, which

?X: has an 'improved' compiler which can correctly cast negative

?X: floats in expression lists, but apparently not in argument lists.

?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>

?X:

```

signal(SIGFPE, blech_in_list);
f = 123.;
along = dummy_long((unsigned long)f);
aint = dummy_int((unsigned int)f);
ashort = dummy_short((unsigned short)f);
if (along != (unsigned long)123)
    result |= 4;
if (aint != (unsigned int)123)
    result |= 4;
if (ashort != (unsigned short)123)
    result |= 4;
exit(result);

```

}

EOCP

```

if $cc $ccflags -o try try.c >/dev/null 2>&1; then

```

```

./try

```

```

castflags=$?

```

```

else

```

```

echo "(I can't seem to compile the test program--assuming it can't)"

```

```

castflags=7

```

```

fi

```

```

case

```

```

"$castflags" in

```

```

0) val="$define"

```

```

echo "Yup, it can."

```

```
;;
*) val="$undef"
echo "Nope, it can't."
;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_castneg.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
?C: available to get the user limits.
?C:.
?H:#$d_ulimit HAS_ULIMIT /**/
?H:.
?LINT:set
d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/dist/U/d\_ulimit.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getnbyad.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getnbyaddr: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getnbyaddr:

?S: This variable conditionally defines the HAS\_GETNETBYADDR symbol, which

?S: indicates to the C program that the getnetbyaddr() routine is available

?S: to look up networks by their IP addresses.

?S:.

?C:HAS\_GETNETBYADDR:

?C: This symbol, if defined, indicates that the getnetbyaddr() routine is

?C: available to look up networks by their IP addresses.

?C:.

?H:#\$d\_getnbyaddr HAS\_GETNETBYADDR /\*\*/

?H:.

?LINT:set d\_getnbyaddr

: see if getnetbyaddr exists

set getnetbyaddr d\_getnbyaddr

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/modified/d\_getnbyad.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_values.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_values.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:48:34 ram

?RCS: patch61: created

?RCS:



```
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
<values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations. Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_values.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
```

?C: This  
symbol, if defined, indicates that the system stores  
?C: the variable argument list datatype, va\_list, in a format  
?C: that cannot be copied by simple assignment, so that some  
?C: other means must be used when copying is required.  
?C: As such systems vary in their provision (or non-provision)  
?C: of copying mechanisms, handy.h defines a platform-  
?C: independent macro, Perl\_va\_copy(src, dst), to do the job.  
?C:.

```
?H:#$need_va_copy NEED_VA_COPY /**/
```

?H:.

?T:okay

?F:!try

: see if we need va\_copy

```
echo " "
```

```
$cat >try.c <<EOCP
```

```
#include <stdarg.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <signal.h>
```

```
int
```

```
ivfprintf(FILE *f, const char *fmt, va_list *valp)
```

```
{  
    return vfprintf(f, fmt, *valp);  
}
```

```
int
```

```
myvfprintf(FILE *f, const char *fmt, va_list val)
```

```
{  
    return ivfprintf(f, fmt, &val);  
}
```

```
int
```

```
myprintf(char *fmt, ...)
```

```
{  
    va_list val;  
    va_start(val, fmt);  
    return myvfprintf(stdout, fmt, val);  
}
```

```
int
```

```
main(int ac, char **av)
```

```
{  
    signal(SIGSEGV, exit);  
#ifdef SIGBUS  
    signal(SIGBUS,
```

```

exit);
#endif

myprintf("%s%s all right, then\n", "that", "");
exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
case "$run ./try`" in
"that's all right, then")
okay=yes
;;
esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
need_va_copy="$undef"
;;
*) echo "It seems that va_copy() or similar will be needed." >&4
need_va_copy="$define"
;;
esac
$rm_try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/need_va_copy.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: locdist.U,v \$

?RCS: Revision 3.0.1.1 1994/05/06 15:09:20 ram

?RCS: patch23: added support for multi-state regions (WED)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:06 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:locdist orgdist citydist statedist multistatedist centrydist contdist: \

test newslibexp cat Myread Oldconfig

?MAKE: -pick add \$@ %<

?S:locdist:

?S: This variable contains the eventual value of the LOCDIST symbol,

?S: which

is the local organization's distribution name for news.

?S:.

?S:orgdist:

?S: This variable contains the eventual value of the ORGDIST symbol,

?S: which is the organization's distribution name for news.

?S:.

?S:citydist:

?S: This variable contains the eventual value of the CITYDIST symbol,

?S: which is the city's distribution name for news.

?S:.

?S:statedist:

?S: This variable contains the eventual value of the STATEDIST symbol,

?S: which is the state's or province's distribution name for news.

?S:.

?S:multistatedist:

?S: This variable contains the eventual value of the MULTISTATEDIST symbol,

?S: which is the news distribution code for multi-state region.

?S:.

?S:centrydist:

?S: This variable contains the eventual value of the CNTRYDIST symbol,

?S: which is the country's distribution name for news.

?S:.

?S:contdist:

?S: This variable contains the eventual value of the CONTDIST symbol,

?S: which is the continent's distribution name for news.

?S:.

?C:LOCDIST:

?C: This symbol contains the  
distribution name for the news system that

?C: restricts article distribution to the local organization.

?C:.

?C:ORGDIST:

?C: This symbol contains the distribution name for the news system that

?C: restricts article distribution to the organization.

?C:.

?C:CITYDIST:

?C: This symbol contains the distribution name for the news system that

?C: restricts article distribution to the city.

?C:.

?C:STATEDIST:

?C: This symbol contains the distribution name for the news system that

?C: restricts article distribution to the state or province.

?C:.

?C:MULTISTATEDIST:

?C: This symbol contains the distribution name for the news system that

?C: restricts article distribution to a multi-state region.

?C:.

?C:CNTRYDIST:

?C: This symbol contains the distribution name for the news system that

?C: restricts article distribution to the country.

?C:.

?C:CONTDIST:

?C: This symbol contains the distribution name for the news system that

?C: restricts article distribution to the continent.

?C:.

?H:#define LOCDIST

```
"$locdist" /**/
```

?H:#define ORGDIST "\$orgdist" /\*\*/

?H:#define CITYDIST "\$citydist" /\*\*/

?H:#define MULTISTATEDIST "\$multistatedist" /\*\*/

?H:#define STATEDIST "\$statedist" /\*\*/

?H:#define CNTRYDIST "\$cntrydist" /\*\*/

?H:#define CONTDIST "\$contdist" /\*\*/

?H:.

: get the local distributions

\$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit where an article will go to. You are likely to be a member of several distribution groups, such as organization, city, state, province, country, continent, etc. For example, Los Angeles has the distribution code "la", New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)

organization att, dec, kgb, ...

city la, ny, mosc, ...

state/province ca, nj, bc, ...

multi-state region pnw, ne, ...

country usa, can, rok, whatever

continent na (North America), asia, etc.

EOH

if \$test

```
-f $newslibexp/distributions; then
```

```
case "$silent" in
```

```
true) ;;
```

```
*) dflt='Hit return to continue'
```

```
rp="
```

```
./myread
```

```

;;
esac
echo "Here is your distributions file:" >&4
echo " " >&4
$cat >&4 $newslibexp/distributions
echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
") dflt="none";;
*) dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
./myread
locdist="$ans"
case "$orgdist" in
") dflt="none";;
*) dflt="$orgdist";;
esac
rp="What is the distribution code for your organization?"
./myread
orgdist="$ans"
case "$citydist" in
") dflt="none";;
*) dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
./myread
citydist="$ans"
case "$statedist" in
") dflt="none";;
*) dflt="$statedist";;
esac
rp="What is the distribution code for your state/province?"
./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
distribution code for your multi-state region?"
./myread
multistatedist="$ans"
case "$cntrydist" in
") dflt="none";;
*) dflt="$cntrydist";;

```

```

esac
rp="What is the distribution code for your country?"
./myread
cndydist="$ans"
case "$contdist" in
") dflt="none";;
*) dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
./myread
contdist="$ans"
$cat <<'EOM'

```

If you have any other distribution groups you will need to edit Pnews and newsetup to add them.

EOM

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/locdist.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2 1994/05/06 15:04:57 ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1 1993/11/10 17:36:09 ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:32 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioclt i_sysfilio i_syssockio
d_voidtty: test contains \
cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
?S:i_sysioctl:

```

?S: This variable conditionally defines the I\_SYS\_IOCTL symbol, which  
 ?S: indicates to the C program that <sys/ioctl.h> exists and should  
 ?S: be included.  
 ?S:.

?S:i\_sysfilio:  
 ?S: This variable conditionally defines the I\_SYS\_FILIO symbol, which  
 ?S: indicates to the C program that <sys/filio.h> exists and should  
 ?S: be included in preference to <sys/ioctl.h>.  
 ?S:.

?S:i\_bsdioclt:  
 ?S: This variable conditionally defines the I\_SYS\_BSDIOCTL symbol, which  
 ?S: indicates to the C program that <sys/bsdioclt.h> exists and should  
 ?S: be included.  
 ?S:.

?S:i\_syssockio:  
 ?S: This variable conditionally defines I\_SYS\_SOCKIO to indicate to the  
 ?S: C program that socket ioctl codes may be found in <sys/sockio.h>  
 ?S: instead of <sys/ioctl.h>.  
 ?S:.

?S:d\_voidtty:  
 ?S: This variable conditionally defines USE\_IOCNOTTY to indicate that the  
 ?S: ioctl() call with TIOCNOTTY should be used  
 to void tty association.  
 ?S: Otherwise (on USG probably), it is enough to close the standard file  
 ?S: descriptors and do a setpgrp().  
 ?S:.

?C:I\_SYS\_IOCTL (I\_SYS\_IOCTL):  
 ?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should  
 ?C: be included. Otherwise, include <sgtty.h> or <termio.h>.  
 ?C:.

?C:I\_SYS\_FILIO:  
 ?C: This symbol, if defined, indicates that <sys/filio.h> exists and  
 ?C: should be included instead of <sys/ioctl.h>.  
 ?C:.

?C:I\_SYS\_BSDIOCTL (I\_BSDIOCTL):  
 ?C: This symbol, if defined, indicates that <sys/bsdioclt.h> exists and should  
 ?C: be included. Otherwise, try <sys/ioctl.h>. This is primarily intended for  
 ?C: definitions of sockets options, like SIOCATMARK.  
 ?C:.

?C:I\_SYS\_SOCKIO (I\_SYSSOCKIO):  
 ?C: This symbol, if defined, indicates the <sys/sockio.h> should be included  
 ?C: to get socket ioctl options, like SIOCATMARK.  
 ?C:.

?C:USE\_TIOCNOTTY (VOIDTTY):  
 ?C: This symbol, if defined indicate to the C program that the ioctl()  
 ?C: call with TIOCNOTTY should be used  
 to void tty association.  
 ?C: Otherwise (on USG probably), it is enough to close the standard file



```

?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL /**/
?H:#$i_sysfilio I_SYS_FILIO /**/
?H:#$i_bsdiocntl I_SYS_BSDIOCTL /**/
?H:#$i_syssockio I_SYS_SOCKETIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgTTY, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
    val="$define"
    echo '<sys/ioctl.h> found.' >&4
else
    val="$undef"
    if $test $i_sysfilio = "$define"; then
        echo '<sys/ioctl.h> NOT found.' >&4
    else
        $test $i_sgTTY = "$define" && xxx="sgTTY.h"
        $test $i_termio = "$define" && xxx="termio.h"
        $test $i_termios = "$define" && xxx="termios.h"
    echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
    fi
fi
?LINT:set i_sysioctl
set i_sysioctl
eval $setvar

@if I_BSDIOCTL || i_bsdiocntl
?X:
?X: The only machine I know where this
inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdiocntl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdiocntl.h`
if $test "$xxx"; then
    if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
        val="$define"
        echo "You have socket ioctls defined in <sys/bsdiocntl.h>." >&4
    else
        val="$undef"
        echo "No socket ioctls found in <sys/bsdiocntl.h>." >&4
    fi
fi

```

```

fi
else
val="$undef"
echo "<sys/bsdioc1.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioc1
set i_bsdioc1
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioc1 defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
val="$define"
echo "You have socket ioc1s defined in <sys/sockio.h>." >&4
else
val="$undef"
echo "No socket ioc1s found in <sys/sockio.h>." >&4
fi
else
val="$undef"
@if I_BSDIOCTL
case "$i_bsdioc1" in
"$define") $cat <<EOM
<sys/sockio.h> not found, using
ioc1s from <sys/bsdioc1.h>.
EOM
;;
*) $cat <<EOM
<sys/sockio.h> not found, assuming socket ioc1s are in <sys/ioc1.h>.
EOM
;;
esac
@else
$cat <<EOM
<sys/sockio.h> not found, assuming socket ioc1s are in <sys/ioc1.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar

@end
@if VOIDTTY || d_voidtty

```

```

: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
exit(0);
#else
exit(1);
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
val="$define"
echo "TIOCNOTTY found in <$xxx>." >&4
echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
val="$undef"
echo "Closing
standard file descriptors should void tty association." >&4
fi
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_sysioctl.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>  
?RCS:  
?RCS: \$Log: Findhdr.U,v \$  
?RCS: Revision 3.0.1.2 1994/10/29 15:53:08 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 14:03:56 ram  
?RCS: patch23: cppminus must be after other cppflags, not before  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:54 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit produces a findhdr script which  
is used to locate the header  
?X: files in \$usrinc or other stranger places using cpp capabilities. The  
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'  
?X: and it returns the full path of the include file and a zero status or an  
?X: empty string with an error status if the file could not be located.  
?X:  
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \  
cppstdin cppminus +cppflags osname  
?MAKE: -pick add \$@ %<  
?LINT:extern cppfilter  
?LINT:define fieldn  
?S:fieldn:  
?S: This variable is used internally by Configure. It contains the position  
?S: of the included file name in cpp output. That is to say, when cpp  
?S: pre-processes a #include <file> line, it replaces it by a # line which  
?S: contains the original position in the input file and the full name of  
?S: included file, between "quotes".  
?S:.  
?V:fieldn  
?F:./findhdr !fieldn  
?T:cline pos wanted name awkprg usrincdir status testaccess  
: determine filename position in cpp output  
echo " "  
echo "Computing  
filename position in cpp output for #include directives..." >&4  
case "\$osname" in  
amigaos) fieldn=3 ;; # Workaround for a bug in abc (pdksh).  
esac

```

case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*) testaccess=-r ;;
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cpptest $cpptest $cpptest <foo.c 2>/dev/null | \
$grep '^[ ]*#.*stdio.h' | \
while read cline; do
pos=1
set \ $cline
while $test \ $# -gt 0; do
if $test $testaccess \ `echo \ $1 | $tr -d ""`; then
echo "\ $pos"
exit 0
fi
shift
pos=\`expr \ $pos + 1\`
done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="\${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

```

?X: To locate a header file, we cannot simply check for \$usrinc/file.h, since  
?X: some machine have the headers in weird places and our only hope is that  
?X: the C pre-processor

will know how to find those headers. Thank you Next!

: locate header file

```
$cat >findhdr <<EOF
```

```
$startsh
```

```
wanted=\ $1
```

```
name="
```

```
for usrincdir in $incpth
```

```

do
if test -f \$usrindir/\$wanted; then
  echo "\$usrindir/\$wanted"
  exit 0
fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cpptest $cpptestminus $cpptestflags < foo\$\$.c 2>/dev/null | \
$cpptestfilter $grep "^[ ]*#.*\$wanted" | \
while read cline; do
  name=\`echo \$cline | $awk "\$awkprg" | $str -d ""`\`
  case "\$name" in
    *[\$wanted] echo "\$name"; exit 1;;
    *[\$wanted] echo "\$name"; exit 1;;
    *) exit 2;;
  esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
  exit 0;
fi
exit 1
EOF
chmod +x findhdr

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/Findhdr.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2014 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ptrdiff\_t: Inlibc Setvar Compile rm\_try cat

?MAKE: -pick add \$@ %<

?S:d\_ptrdiff\_t:

?S: This symbol will be defined if the C compiler supports ptrdiff\_t.

```

?S:.
?C:HAS_PTRDIFF_T:
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
  val="$define"
  echo "You have ptrdiff_t."
else
  val="$undef"
  echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_ptrdiff_t.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_sgndchr.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:44:25 ram

?RCS: patch61: added a ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.1 1995/07/25 14:00:24 ram

?RCS: patch56: made cc and ccflags optional dependencies

?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:07:16 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
    that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
    char c = 0;

    c--;
    exit(c >= 0);
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
    val="$define"
    echo "It certainly can."
else
    val="$undef"
    echo "It can't. I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sgndchr.U

```

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?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2003, Jarkko Hietaniemi  
?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_pthread\_attr\_setscope: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_pthread\_attr\_setscope:  
?S: This variable conditionally defines HAS\_PTHREAD\_ATTR\_SETSCOPE if  
?S: pthread\_attr\_setscope() is available to set the contention scope  
?S: attribute of a thread attribute object.  
?S:.  
?C:HAS\_PTHREAD\_ATTR\_SETSCOPE:  
?C: This symbol, if defined, indicates that the pthread\_attr\_setscope  
?C: system call is available to set the contention scope attribute of  
?C: a thread attribute object.  
?C:.  
?H:#\$d\_pthread\_attr\_setscope HAS\_PTHREAD\_ATTR\_SETSCOPE /\*\*/  
?H:.  
?LINT:set  
d\_pthread\_attr\_setscope  
: see if pthread\_attr\_setscope exists  
set pthread\_attr\_setscope d\_pthread\_attr\_setscope  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_pthread\_attr\_ss.U

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?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
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?RCS: You may redistribute only under the terms of the Artistic License,  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_ndbm.U,v \$  
?RCS: Revision 3.0.1.1 1995/05/12 12:16:53 ram  
?RCS: patch54: made more robust by checking both header and lib (ADO)

```

?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:23 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check. We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
$define)
: see if dbm_open exists
set dbm_open d_dbm_open
eval $inlibc
case "$d_dbm_open" in
$undef)
t_ndbm="$undef"
echo "We won't be including <ndbm.h>"
;;
esac
;;
esac
val="$t_ndbm"
set i_ndbm
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_ndbm.U

```

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_lc\_monetary\_2008: cat Compile rm\_try d\_loconv

?MAKE: -pick add \$@ %<

?S:d\_lc\_monetary\_2008:

?S: This variable conditionally defines HAS\_LC\_MONETARY\_2008 if libc

?S: has the international currency locale rules from POSIX

?S: 1003.1-2008.

?S:.

?C:HAS\_LC\_MONETARY\_2008:

?C: This symbol, if defined, indicates that the localeconv routine is

?C: available and has the additional members added in POSIX 1003.1-2008.

?C:.

?H:#\$d\_lc\_monetary\_2008 HAS\_LC\_MONETARY\_2008 /\*\*/

?H:.

: see if libc has the POSIX.1-2008 currency locale rules

case "\$d\_loconv:\$d\_lc\_monetary\_2008" in

\$define:)

\$cat

>try.c <<EOCP

#include <locale.h>

int main() {

struct lconv \*lc = localeconv();

char int\_p\_cs\_precedes = lc->int\_p\_cs\_precedes;

return 0;

}

EOCP

set try

if eval \$compile; then

d\_lc\_monetary\_2008="\$define"

else

d\_lc\_monetary\_2008="\$undef"

fi;

\$rm\_try

::

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_lc\_monetary\_2008.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_statfs\_f\_flags: \

Hasfield i\_sysparam i\_sysmount i\_systypes \

i\_sysvfs i\_sysstatfs Setvar d\_statfs\_s

?MAKE: -pick add \$@ %<

?S:d\_statfs\_f\_flags:

?S: This variable conditionally defines the HAS\_STRUCT\_STATFS\_F\_FLAGS

?S: symbol, which indicates to struct statfs from has\_f\_flags member.

?S: This kind of struct statfs is coming from sys/mount.h (BSD),

?S: not from sys/statfs.h (SYSV).

?S:.

?C:HAS\_STRUCT\_STATFS\_F\_FLAGS:

?C: This symbol, if defined, indicates that the struct statfs

?C: does have the f\_flags member containing the mount flags of

?C: the filesystem containing the file.

?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),

?C: not from <sys/statfs.h> (SYSV). Older BSDs

(like Ultrix) do not

?C: have statfs() and struct statfs, they have ustat() and getmnt()

?C: with struct ustat and struct fs\_data.

?C:.

?H:#\$d\_statfs\_f\_flags HAS\_STRUCT\_STATFS\_F\_FLAGS /\*\*/

?H:.

?LINT:set d\_statfs\_f\_flags

: see if struct statfs knows about f\_flags

case "\$d\_statfs\_s" in

define)

echo " "

echo "Checking to see if your struct statfs has f\_flags field..." >&4

set d\_statfs\_f\_flags statfs f\_flags \$i\_systypes sys/types.h \$i\_sysparam sys/param.h \$i\_sysmount sys/mount.h

\$i\_sysvfs sys/vfs.h \$i\_sysstatfs sys/statfs.h

eval \$hasfield

::

\*) val="\$undef"

set d\_statfs\_f\_flags

eval \$setvar

::

esac

case "\$d\_statfs\_f\_flags" in

"\$define") echo "Yes, it does." ;;

\*) echo "No, it doesn't." ;;

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_statfs\_f\_flags.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_voidsig.U,v \$  
?RCS: Revision 3.0.1.3 1995/05/12 12:12:46 ram  
?RCS: patch54: made cppflags dependency optional  
?RCS:  
?RCS: Revision 3.0.1.2 1994/08/29 16:20:35 ram  
?RCS: patch32: now sets signal\_t only once d\_voidsig is known (WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/06/20 06:59:54 ram  
?RCS: patch30: now properly sets signal\_t when re-using previous value  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:07:56 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_voidsig  
signal\_t: rm contains cppstdin cppminus +cppflags test Myread \  
Oldconfig Setvar Findhdr  
?MAKE: -pick add \$@ %<  
?S:d\_voidsig:  
?S: This variable conditionally defines VOIDSIG if this system  
?S: declares "void (\*signal(...))()" in signal.h. The old way was to  
?S: declare it as "int (\*signal(...))()".  
?S:.  
?S:signal\_t:  
?S: This variable holds the type of the signal handler (void or int).  
?S:.  
?C:VOIDSIG:  
?C: This symbol is defined if this system declares "void (\*signal(...))()" in  
?C: signal.h. The old way was to declare it as "int (\*signal(...))()". It  
?C: is up to the package author to declare things correctly based on the  
?C: symbol.  
?C:.  
?C:Signal\_t (SIGNAL\_T):  
?C: This symbol's value is either "void" or "int", corresponding to the  
?C: appropriate return type of a signal handler. Thus, you can declare  
?C: a signal handler using "Signal\_t (\*handler)()", and define the  
?C: handler using "Signal\_t handler(sig)".

```

?C:
?H:#$d_voidsig VOIDSIG /**/
?H:#define
Signal_t $signal_t /* Signal handler's return type */
?H:
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$.tmp 2>/dev/null
if $contains 'int.*\[ ]*signal' $.tmp >/dev/null 2>&1 ; then
echo "You have int (*signal())() instead of void." >&4
val="$undef"
elif $contains 'void.*\[ ]*signal' $.tmp >/dev/null 2>&1 ; then
echo "You have void (*signal())()." >&4
val="$define"
elif $contains 'extern[ ]*\[ \]*signal' $.tmp >/dev/null 2>&1 ; then
echo "You have int (*signal())() instead of void." >&4
val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X: typedef void (*__sig_handler_t) (int) ;
?X: A better fix would be to compile a C program with the proper
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.sig' $.tmp >/dev/null 2>&1 ; then
echo "You
have void (*signal())()." >&4
val="$define"
else
case "$d_voidsig" in
")
echo "I can't determine whether signal handler returns void or int..." >&4
dflt=void
rp="What type does your signal handler return?"
./myread
case "$ans" in
v*) val="$define";;
*) val="$undef";;
esac;;
"$define")
echo "As you already told me, signal handler returns void." >&4
val="$define"
;;
*) echo "As you already told me, signal handler returns int." >&4
val="$undef"
;;

```

```
esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$tmp
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_voidsig.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_acosh:

?S: This variable conditionally defines the HAS\_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS\_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d\_acosh HAS\_ACOSH /\*\*/

?H:.

?LINT:set d\_acosh

: see if acosh exists

set acosh d\_acosh

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_acosh.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sitebin.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

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```

?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin="
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question. It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S: MakeMaker Makefile.PL
?S: or equivalent. See INSTALL for details.
?S:.
?D:sitebinexp="
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin="
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
") dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
./getfile
prefixvar=sitebin
./setprefixvar

```

Found in path(s):



\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/sitebin.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_ftrncate.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:07 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_ftrncate: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ftrncate (d\_ftruncate):

?S: This variable conditionally defines the HAS\_FTRUNCATE symbol, which

?S: indicates to the C program that the ftruncate() subroutine exists.

?S:.

?C:HAS\_FTRUNCATE:

?C: This symbol, if defined, indicates that the ftruncate() subroutine

?C: exists.

?C:.

?H:#\$d\_ftrncate

HAS\_FTRUNCATE /\*\*/

?H:.

?LINT:set d\_ftrncate

: see if ftruncate exists

set ftruncate d\_ftrncate

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_ftrncate.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Loc.U,v \$  
?RCS: Revision 3.0.1.10 1997/02/28 15:04:16 ram  
?RCS: patch61: allow users to specify paths on the command line  
?RCS: patch61: will now substitute cp for ln if not supported  
?RCS:  
?RCS: Revision 3.0.1.9 1995/09/25 09:11:24 ram  
?RCS: patch59: commented the purpose of the #un-def directive  
?RCS: patch59: abort Configure run when mandatory command is missing  
?RCS:  
?RCS: Revision 3.0.1.8 1995/07/25 13:40:40 ram  
?RCS: patch56: now knows about  
OS/2 platforms  
?RCS:  
?RCS: Revision 3.0.1.7 1995/01/11 15:13:37 ram  
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI  
?RCS: patch45: added path lookup for the 'comm' program  
?RCS:  
?RCS: Revision 3.0.1.6 1994/10/29 15:56:14 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS: patch36: be careful and guard against wildcard searching (ADO)  
?RCS:  
?RCS: Revision 3.0.1.5 1994/06/20 06:54:55 ram  
?RCS: patch30: now locates find  
?RCS:  
?RCS: Revision 3.0.1.4 1994/05/13 15:18:15 ram  
?RCS: patch27: added byacc to the trylist (ADO)  
?RCS: patch27: lint lines reformatted (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/01/24 14:01:44 ram  
?RCS: patch16: added metalint hint on changed PATH variable  
?RCS:  
?RCS: Revision 3.0.1.2 1993/12/15 08:16:52 ram  
?RCS: patch15: now set \_test variable when test is built-in  
?RCS: patch15: fixed rare cases where echo is not needed  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 15:47:13 ram  
?RCS: patch10: test program not always  
in /bin/test (WAD)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:05 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit produces a shell script "loc" which can be used to find out  
?X: where in a list of directories something is. It then uses loc to

?X: determine the location of commonly used programs. It leaves loc sitting

?X: around for other Configure units to use, but arranges for its demise

?X: at the end of Configure.

?X:

?X: To add a new program to find, add it both to the ?MAKE: line and to either

?X: the loclist or trylist variable.

?X:

?X: I put startsh at the end of the dependency list, in order to avoid the

?X: loading of the spitshell unit before the instructions.

?X:

```
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \  
comm compress cp cpio cpp csh date echo egrep emacs expr find flex \  
gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \  
make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \  
shar sleep smail sort \  
submit tail tar tbl tee test touch tr troff \  
uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
```

```
?MAKE: -pick weed $@ %<
```

```
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \  
comm compress cp cpio cpp csh date echo egrep emacs expr find flex \  
gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \  
make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \  
shar sleep smail sort submit tail tar tbl tee test touch tr troff \  
uname uniq uuname vi zcat zip
```

```
?V::pth loclist trylist
```

```
?F:./loc test_h
```

```
?T:thisthing thing xxx dir file say _test DJGPP
```

```
?LINT:change PATH _egrep _ln _make _less
```

```
?LINT:extern _exe
```

```
: find out where common programs are
```

```
echo " "
```

```
echo "Locating common programs..." >&4
```

```
cat <<EOSC >loc
```

```
$startsh
```

```
case $# in
```

```
0) exit 1;;
```

```
esac
```

```
thing=${1}
```

```
shift
```

```
dflt=${1}
```

```
shift
```

```
for dir in \*; do
```

```
case "\$thing" in
```

```
.)
```

```
if test -d \$dir/\$thing; then
```

```
echo \$dir
```

```
exit 0
```

```
fi
```

```

;;
*)
?X: Be careful in case thing includes wildcards that might expand
to multiple
?X: files. Choose the last one. This happens when searching for shared
?X: libraries with version numbers. How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission. A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
for thisthing in \${dir}/${thing}; do
: just loop through to pick last item
done
if test -f \${thisthing}; then
echo \${thisthing}
exit 0
elif test "X$_exe" != X -a -f \${thisthing}$_exe; then
echo \${thisthing}
exit 0
elif test -f \${dir}/${thing}.exe; then
if test -n "$DJGPP"; then
echo \${dir}/${thing}.exe
elif test "$eunicefix" != ":"; then
: on Eunice apparently
echo \${dir}/${thing}
fi
exit 0
fi
;;
esac
done
echo \${dflt}
exit
1
EOSC
chmod +x loc
$eunicefix loc
loclist=""
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp

```

?echo:echo  
?expr:expr  
?find:find  
?grep:grep  
?ls:ls  
?mkdir:mkdir  
?mv:mv  
?rm:rm  
?sed:sed  
?sleep:sleep  
?sort:sort  
?tail:tail  
?touch:touch  
?tr:tr  
?uniq:uniq  
"  
trylist="  
?Mcc:Mcc  
?ar:ar  
?bash:bash  
?bison:bison  
?byacc:byacc  
?compress:compress  
?cpio:cpio  
?cpp:cpp  
?csh:csh  
?date:date  
?egrep:egrep  
?emacs:emacs  
?flex:flex  
?gmake:gmake  
?gzip:gzip  
?inews:inews  
?ksh:ksh  
?less:less  
?line:line  
?lint:lint  
?ln:ln  
?lp:lp  
?lpr:lpr  
?mail:mail  
?mailx:mailx  
?make:make  
?more:more  
?nm:nm  
?nroff:nroff  
?perl:perl  
?pg:pg

```

?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uname:uname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
comm compress cp cpio cpp csh date echo emacs expr find flex \
gmake gzip grep inews ksh line lint lp lpr ls mail mailx \
\
mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
shar sleep smail sort submit tail tar tbl tee touch tr troff \
uname uniq uname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
eval xxx=\$$file
case "$xxx" in
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac

```

```

eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo
"I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;
*) xxx=`./loc $xxx $xxx $pth`;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."

```

```

say=either
;;
esac
done
case "$grep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less"
in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
esac
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS

```



```

# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test
and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible. In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c="";;
esac
cat <<FOO

```

They are not compatible! You are probably running ksh on a non-USG system.

I'll have to use `$echo` instead of the builtin, since Bourne shell doesn't have `echo` built in and we may have to run some Bourne shell scripts. That means I'll have to use `'$n$c'` to suppress newlines now.

Life is ridiculous.

FOO

```
$echo $n "The star should be here-->$c"
```

```
$echo "*"
```

```
fi
```

```
$rm -f foo1 foo2
```

```
::
```

```
esac
```

?X: The next part is irrelevant to the real process

# This question was auctioned at YAPC::Europe-2007 in Vienna

# I never promised you could answer it. I only auctioned the question.

```
cat <<FOO
```

The following message is sponsored by

Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package maintainer, the Perl community sends greetings to you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Loc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the WRITEME file.

?RCS:

?MAKE:d\_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_writev:

?S: This variable conditionally defines the HAS\_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS\_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

```
?C:
?H:#$d_writev HAS_WRITEV /**/
?H:
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_writev.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
Protochk Oldconfig Myread cat \
d_gethbyaddr d_gethbyname d_getnbyaddr \
i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr(). Usually, this is char * or void *, possibly
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:
?S:netdb_hlen_type:
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr(). Usually,
?S: this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
?S: gethostbyname(). Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
```

?S: getnetbyaddr(). Usually, this is int or long.  
 ?S: This is only useful if you have getnetbyaddr(), naturally.  
 ?S:.  
 ?C:Netdb\_host\_t:  
 ?C: This symbol holds the type used for the 1st argument  
 ?C: to gethostbyaddr().  
 ?C:.  
 ?C:Netdb\_hlen\_t:  
 ?C: This symbol holds the type used for the 2nd argument  
 ?C: to gethostbyaddr().  
 ?C:.  
 ?C:Netdb\_name\_t:  
 ?C: This symbol holds the type used for the argument to  
 ?C: gethostbyname().  
 ?C:.  
 ?C:Netdb\_net\_t:  
 ?C: This symbol holds the type used for the 1st argument to  
 ?C: getnetbyaddr().  
 ?C:.  
 ?H:#define Netdb\_host\_t \$netdb\_host\_type /\*\*/  
 ?H:#define Netdb\_hlen\_t \$netdb\_hlen\_type  
 /\*\*/  
 ?H:#define Netdb\_name\_t \$netdb\_name\_type /\*\*/  
 ?H:#define Netdb\_net\_t \$netdb\_net\_type /\*\*/  
 ?H:.  
 ?T:xxx yyy try hdrs  
 @if netdb\_host\_type || Netdb\_host\_t || netdb\_hlen\_type || Netdb\_hlen\_t  
 : check for type of arguments to gethostbyaddr.  
 if test "X\$netdb\_host\_type" = X -o "X\$netdb\_hlen\_type" = X; then  
 case "\$d\_gethbyaddr" in  
 \$define)  
 \$cat <<EOM

Checking to see what type of arguments are accepted by gethostbyaddr().

EOM

```
hdrs="$define sys/types.h
$d_socket sys/socket.h
$i_niin netinet/in.h
$i_netdb netdb.h
$i_unistd unistd.h"
: The first arg can 'char *' or 'void *'
: The second arg is some of integral type
for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
for yyy in size_t long int; do
case "$netdb_host_type" in
") try="$xextern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
if ./protochk "$try" $hdrs; then
echo "Your system accepts $xxx for the first arg."
```

```

    echo "...and $yyy for the second arg."
    netdb_host_type="$xxx"
    netdb_hlen_type="$yyy"
fi
;;
esac
done
done
:
In case none of those worked, prompt the user.
case "$netdb_host_type" in
") rp='What is the type for the 1st argument to gethostbyaddr?'
dflt='char *'
./myread
netdb_host_type=$ans
rp='What is the type for the 2nd argument to gethostbyaddr?'
dflt="$sizetype"
./myread
netdb_hlen_type=$ans
;;
esac
;;
*) : no gethostbyaddr, so pick harmless defaults
netdb_host_type='char *'
netdb_hlen_type="$sizetype"
;;
esac
# Remove the "const" if needed. -- but then we'll have a
# prototype clash!
# netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end

@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
if test "X$netdb_name_type" = X ; then
case "$d_gethbyname" in
$define)
$cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
hdrs="$define sys/types.h
$d_socket sys/socket.h
$i_niin
netinet/in.h
$i_netdb netdb.h
$i_unistd unistd.h"

```

```

for xxx in "const char *" "char *"; do
case "$netdb_name_type" in
") try="$extern_C struct hostent *gethostbyname($xxx);"
if ./protochk "$stry" $hdrs; then
echo "Your system accepts $xxx."
netdb_name_type="$xxx"
fi
;;
esac
done
: In case none of those worked, prompt the user.
case "$netdb_name_type" in
") rp='What is the type for the 1st argument to gethostbyname?'
dflt='char *'
./myread
netdb_name_type=$ans
;;
esac
;;
*) : no gethostbyname, so pick harmless default
netdb_name_type='char *'
;;
esac
fi
@end

```

```

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
case "$d_getnbyaddr" in
$define)
$cat <<EOM

```

Checking to see what type of 1st argument is accepted by getnetbyaddr().

EOM

```

hdrs="$define sys/types.h
$d_socket sys/socket.h
$i_niin netinet/in.h
$i_netdb netdb.h
$i_unistd
unistd.h"
for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
case "$netdb_net_type" in
") try="$extern_C struct netent *getnetbyaddr($xxx, int);"
if ./protochk "$stry" $hdrs; then
echo "Your system accepts $xxx."
netdb_net_type="$xxx"
fi

```

```

;;
esac
done
: In case none of those worked, prompt the user.
case "$netdb_net_type" in
") rp='What is the type for the 1st argument to getnetbyaddr?'
dflt='long'
./myread
netdb_net_type=$ans
;;
esac
;;
*) : no getnetbyaddr, so pick harmless default
netdb_net_type='long'
;;
esac
fi
@end

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/netdbtype.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:14:05 ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end

```

```

in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
echo " "
xxx=`./findhdr stdio.h`
$cppstdin $cppflags $cppminus < "$xxx" > stdio.E
if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
$contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
$contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
echo "Your stdio looks like linux." >&4
val="$define"
else
echo "You don't have linux stdio, either." >&4
val="$undef"
fi
$rm -f stdio.E
;;
*) val="$undef" ;;
esac

set d_linuxstd
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_linuxstd.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:

```



```

?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:23:06 ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1 1993/08/24 12:24:43 ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise. It is possible to override this
?S: with a hint value or command line option,
but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option. This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
afs=true
else
afs=false
fi
;;
esac
if $afs; then
echo "AFS may be running... I'll be extra cautious then..." >&4
else
echo "AFS does not seem to be running..." >&4
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/dist/U/afs.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/h_sysfile.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
?S:.
?S:getnetbyaddr_r_proto:
```

?S: This variable encodes the prototype of getnetbyaddr\_r.

?S: It is zero if d\_getnetbyaddr\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getnetbyaddr\_r

?S: is defined.

?S:.

?C:HAS\_GETNETBYADDR\_R:

?C: This symbol, if defined, indicates that

the getnetbyaddr\_r routine

?C: is available to getnetbyaddr re-entrantly.

?C:.

?C:GETNETBYADDR\_R\_PROTO:

?C: This symbol encodes the prototype of getnetbyaddr\_r.

?C: It is zero if d\_getnetbyaddr\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getnetbyaddr\_r

?C: is defined.

?C:.

?H:#\$d\_getnetbyaddr\_r HAS\_GETNETBYADDR\_R /\*\*/

?H:#define GETNETBYADDR\_R\_PROTO \$getnetbyaddr\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_getnetbyaddr\_r\_proto

: see if getnetbyaddr\_r exists

set getnetbyaddr\_r d\_getnetbyaddr\_r

eval \$inlibc

case "\$d\_getnetbyaddr\_r" in

"\$define")

hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_netdb netdb.h"

case "\$d\_getnetbyaddr\_r\_proto:\$usethreads" in

":define") d\_getnetbyaddr\_r\_proto=define

set d\_getnetbyaddr\_r\_proto getnetbyaddr\_r \$hdrs

eval \$hasproto ;;

\*) ;;

esac

case "\$d\_getnetbyaddr\_r\_proto" in

define)

case "\$getnetbyaddr\_r\_proto" in

"|0) try='int getnetbyaddr\_r(unsigned long, int, struct netent\*, char\*, size\_t, struct netent\*\*, int\*);'

./protochk

"\$extern\_C \$try" \$hdrs && getnetbyaddr\_r\_proto=I\_UISBWRE ;;

esac

case "\$getnetbyaddr\_r\_proto" in

"|0) try='int getnetbyaddr\_r(long, int, struct netent\*, char\*, int);'

./protochk "\$extern\_C \$try" \$hdrs && getnetbyaddr\_r\_proto=I\_LISBI ;;

esac

case "\$getnetbyaddr\_r\_proto" in

"|0) try='struct netent\* getnetbyaddr\_r(in\_addr\_t, int, struct netent\*, char\*, int);'

./protochk "\$extern\_C \$try" \$hdrs && getnetbyaddr\_r\_proto=S\_TISBI ;;

esac

case "\$getnetbyaddr\_r\_proto" in

```

"|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) d_getnetbyaddr_r=undef
getnetbyaddr_r_proto=0
echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
*) case "$getnetbyaddr_r_proto" in
REENTRANT_PROTO*) ;;
*) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
esac
d_getnetbyaddr_r=undef
getnetbyaddr_r_proto=0
;;
esac
;;
*) getnetbyaddr_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getnetbyaddr\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_umask.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_umask.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:14:50 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_umask: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_umask:  
?S: This variable conditionally defines the HAS\_UMASK symbol, which  
?S: indicates to the C program that the umask() routine is available.  
?S: to set and get the value of the file creation mask.  
?S:.  
?C:HAS\_UMASK :  
?C: This  
symbol, if defined, indicates that the umask routine is  
?C: available to set and get the value of the file creation mask.  
?C:.  
?H:#\$d\_umask HAS\_UMASK /\*\*/  
?H:.  
?LINT:set d\_umask  
: see if umask exists  
set umask d\_umask  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_umask.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_access.U,v 3.0 1993/08/18 12:05:42 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
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```

?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:42 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
echo " "
$cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
exit(R_OK);

```

```

}
EOCP
: check sys/file.h first, no particular reason here
if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
  "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
fi
;;
esac
$rm -f access*

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_access.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atanh:

?S: This variable conditionally defines the HAS\_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS\_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d\_atanh HAS\_ATANH /\*\*/

?H:.

?LINT:set d\_atanh

: see if atanh exists

set atanh d\_atanh

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_atanh.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libflex.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:57:48 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:07:02 ram

?RCS: patch23: now uses full library path instead of -l notation

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:13:25 ram

?RCS: patch16: un-obsolete this unit to allow smooth lex/flex compilations

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:59 ram

?RCS: Baseline for dist 3.0 netwide

release.

?RCS:

?MAKE:libflex: Loc lex libpth \_a

?MAKE: -pick add \$@ %<

?S:libflex:

?S: This variable contains the argument to pass to the loader in order

?S: to get the flex/lex library routines. If there is no flex or flex

?S: library, it is null.

?S:.

?T:xxx

: see if we should include -lfl

echo " "

case "\$lex" in

\*flex)

xxx=`./loc libfl\$\_a x \$libpth`

case "\$xxx" in

x)

echo "No flex library found." >&4

libflex="

::



```

*)
echo "flex library found in $xxx." >&4
libflex="$xxx"
;;
esac
;;
*lex)
xxx=`./loc libl$a x $libpth`
case "$xxx" in
x)
echo "No lex library found." >&4
libflex=""
;;
*)
echo "lex library found in $xxx." >&4
libflex="$xxx"
;;
esac
;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/libflex.U

```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrint:

?S: This variable conditionally defines the HAS\_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrint HAS\_LRINT /\*\*/

?H:.

?LINT:set d\_lrint

: see if lrint exists

set lrint d\_lrint

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_lrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_syssock.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_syssock.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:36 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:i\_syssock: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_syssock:

?S: This variable conditionally defines the I\_SYS\_SOCKET symbol, and indicates

?S: whether a C program should include <sys/socket.h> before performing socket

?S: operations.

?S:.

?C:I\_SYS\_SOCKET:

?C: This symbol, if defined, indicates to the C program that it should

?C: include

<sys/socket.h> before performing socket calls.

?C:.

?H:#\$i\_syssock I\_SYS\_SOCKET /\*\*/

?H:.

?LINT:set i\_syssock

: see if this is a sys/socket.h system

set sys/socket.h i\_syssock

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_syssock.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera \$

?RCS:  
?RCS: Copyright (c) 1996-1999, Andy Dougherty  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: as specified in the README file that comes with the distribution.  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: man3dir.U,v \$  
?RCS: Revision 3.1 1999/07/08 20:52:19 doughera  
?RCS: Updated for perl5.005\_5x  
?RCS:  
?RCS: Revision 3.0.1.1 1997/02/28 16:10:34 ram  
?RCS: patch61: created  
?RCS:  
?X: This was originally specific to perl5. Since perl5 has man pages that  
?X: go in both man1/ and man3/ directories, we need both man1dir  
?X: and man3dir. This unit is basically dist's mansrc.U with  
?X: man3 used instead  
of man everywhere.  
?X: I then added various tests because perl5 has \*lots\* of man3  
?X: pages with long file names. -- ADO  
?X:  
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \  
sed man1dir package package Getfile Setprefixvar Prefixit Prefixup \  
d\_flexfnam privlib Myread test  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?D:man3dir="  
?S:man3dir:  
?S: This variable contains the name of the directory in which manual  
?S: source pages are to be put. It is the responsibility of the  
?S: Makefile.SH to get the value of this into the proper command.  
?S: You must be prepared to do the ~name expansion yourself.  
?S:.  
?D:man3direxp="  
?S:man3direxp:  
?S: This variable is the same as the man3dir variable, but is filename  
?S: expanded at configuration time, for convenient use in makefiles.  
?S:.  
?D:installman3dir="  
?S:installman3dir:  
?S: This variable is really the same as man3direxp, unless you are using  
?S: AFS in which case it points to the read/write location whereas  
?S: man3direxp only

points to the read-only access location. For extra  
?S: portability, you should only use this variable within your makefiles.  
?S:.  
?S:man3ext:  
?S: This variable contains the extension that the manual page should  
?S: have: one of 'n', 'l', or '3'. The Makefile must supply the '.'.  
?S: See man3dir.  
?S:.  
?T:prog tdfmt  
?LINT:change prefixvar  
?LINT:set man3direxp  
: determine where library module manual pages go  
set man3dir man3dir none  
eval \$prefixit  
\$cat <<EOM

\$spackage has manual pages for many of the library modules.  
EOM

```
case "$nroff" in  
nroff)  
$cat <<'EOM'
```

However, you don't have nroff, so they're probably useless to you.

```
EOM  
case "$man3dir" in  
") man3dir="none";;  
esac;;  
esac
```

```
case "$d_flexfnam" in  
undef)  
$cat <<'EOM'
```

However, your system can't handle the long file names like File::Basename.3.

```
EOM  
case "$man3dir" in  
") man3dir="none";;  
esac;;  
esac
```

echo "If you don't want the manual sources installed, answer 'none'."

?X: In 5.005\_57 and earlier, I had the following notes:

?X:

We do not use /usr/local/man/man3 because some man programs will

?X: only show the /usr/local/man/man3 contents, and not the system ones,

?X: thus man less will show the perl module less.pm, but not the system

?X: less command. We might also conflict with Tcl man pages.

?X: However, something like /opt/perl/man/man3 is fine.

?X:

?X: However, opinion seems to be shifting such that 'man POSIX' ought

?X: to just work. -- Andy Dougherty July 8, 1999

?X:

?X: remove any trailing -3.0 or other version indication from \$package

```
prog=`echo $package | $sed 's/-*[0-9.]*$//`
```

```
case "$man3dir" in
```

```
) dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g`
```

```
if $test -d "$privlib/man/man3"; then
```

```
cat <<EOM >&4
```

WARNING: Previous versions of perl installed man3 pages into

\$privlib/man/man3. This version will suggest a

new default of \$dflt.

EOM

```
tdflt=$dflt
```

```
dflt='n'
```

```
rp='Do you wish to preserve the old behavior?(y/n)'
```

```
./myread
```

```
case "$ans" in
```

```
y*) dflt="$privlib/man/man3"
```

```
;;
```

```
*) dflt=$tdflt ;;
```

```
esac
```

```
fi
```

```
;;
```

```
*) dflt="$man3dir" ;;
```

```
esac
```

```
case "$dflt" in
```

```
'') dflt=none ;;
```

```
esac
```

```
echo " "
```

```
fn=dn+~
```

```
rp="Where do the $package library man pages (source) go?"
```

```
./getfile
```

```
prefixvar=man3dir
```

```
./setprefixvar
```

```
case "$man3dir" in
```

```
) man3dir=' '
```

```
installman3dir="";;
```

```
esac
```

: What suffix to use on installed man pages

```
case "$man3dir" in
```

```
'')
```

```
man3ext='0'
```

```
;;
```

```
*)
```

```

rp="What suffix should be used for the $package library man pages?"
case "$man3ext" in
") case "$man3dir" in
*3) dflt=3 ;;
*3p) dflt=3p ;;
*3pm) dflt=3pm ;;
*1) dflt=1;;
*n) dflt=n;;
*o) dflt=o;;
*p) dflt=p;;
*C) dflt=C;;
*L) dflt=L;;
*L3) dflt=L3;;
*) dflt=3;;
esac
;;
*) dflt="$man3ext";;
esac
./myread
man3ext="$ans"
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/man3dir.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_chown.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_chown.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:07:14 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_chown: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_chown:

?S: This variable conditionally defines the HAS\_CHOWN symbol, which

?S: indicates to the C program that the chown() routine is available.

?S:.

?C:HAS\_CHOWN :

?C: This symbol, if defined, indicates that the chown routine is

?C: available.

?C:.

?H:#\$d\_chown

HAS\_CHOWN /\*\*/

?H:.

?LINT:set d\_chown

: see if chown exists

set chown d\_chown

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_chown.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_memcpy.U,v \$

?RCS: Revision 3.0.1.1 1993/09/13 16:02:58 ram

?RCS: patch10: removed text recommending bcopy over memcpy (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:34 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_memcpy: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_memcpy:

?S: This variable conditionally defines the HAS\_MEMCPY symbol, which

?S: indicates to the C program that the memcpy() routine is available

?S: to copy blocks of

memory.

?S:.

?C:HAS\_MEMCPY (MEMCPY):

?C: This symbol, if defined, indicates that the memcpy routine is available

?C: to copy blocks of memory.

?C:.

?H:#\$d\_memcpy HAS\_MEMCPY /\*\*/

?H:.

?LINT:set d\_memcpy

: see if memcpy exists

set memcpy d\_memcpy

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_memcpy.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999, Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: vendorarch.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:d\_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \

Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test

?MAKE: -pick add \$@ %<

?Y:TOP

?S:vendorarch:

?S: This variable contains the value of the PERL\_VENDORARCH symbol.

?S: It may have a ~ on the front.

?S: The standard distribution will put nothing in this directory.

?S: Vendors

who distribute perl may wish to place their own

?S: architecture-dependent modules and extensions in this directory with

?S: MakeMaker Makefile.PL INSTALLDIRS=vendor

?S: or equivalent. See INSTALL for details.

?S:.

?S:vendorarchexp:

?S: This variable is the ~name expanded version of vendorarch, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installvendorarch="

?S:installvendorarch:

?S: This variable is really the same as vendorarchexp but may differ on

?S: those systems using AFS. For extra portability, only this variable



?S: should be used in makefiles.

?S:.

?S:d\_vendorarch:

?S: This variable conditionally defined PERL\_VENDORARCH.

?S:.

?C:PERL\_VENDORARCH:

?C: If defined, this symbol contains the name of a private library.

?C: The library is private in the sense that it needn't be in anyone's

?C: execution path, but it should be accessible by the world.

?C: It may have a ~ on the front.

?C: The standard distribution will put nothing in this  
directory.

?C: Vendors who distribute perl may wish to place their own

?C: architecture-dependent modules and extensions in this directory with

?C: MakeMaker Makefile.PL INSTALLDIRS=vendor

?C: or equivalent. See INSTALL for details.

?C:.

?C:PERL\_VENDORARCH\_EXP:

?C: This symbol contains the ~-name expanded version of PERL\_VENDORARCH, to be used

?C: in programs that are not prepared to deal with ~ expansion at run-time.

?C:.

?H:#\$d\_vendorarch PERL\_VENDORARCH "\$vendorarch" /\*\*/

?H:#\$d\_vendorarch PERL\_VENDORARCH\_EXP "\$vendorarchexp" /\*\*/

?H:.

?LINT:change prefixvar

?LINT:set installvendorarch

: Set the vendorarch variables

case "\$vendorprefix" in

) d\_vendorarch="\$undef"

vendorarch="

vendorarchexp="

::

\*) d\_vendorarch="\$define"

: determine where vendor-supplied architecture-dependent libraries go.

: vendorlib default is /usr/local/lib/perl5/vendor\_perl/\$version

: vendorarch default is /usr/local/lib/perl5/vendor\_perl/\$version/\$sarchname

: vendorlib may have an optional trailing

/share.

case "\$vendorarch" in

) dflt=`echo \$vendorlib | \$sed 's,/share\$,,'`

dflt="\$dflt/\$sarchname"

::

\*) dflt="\$vendorarch" ;;

esac

fn=d~+

rp='Pathname for vendor-supplied architecture-dependent files?'

./getfile

vendorarch="\$ans"

```

vendorarchexp="$sansexp"
;;
esac
prefixvar=vendorarch
./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
d_vendorarch="$sundef"
else
d_vendorarch="$sdefine"
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorarch.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3 1994/06/20 07:01:55 ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2 1994/05/13 15:23:56 ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/05/06 15:02:25 ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:22 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should

```

```
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY /**/
?H:.
?LINT:set i_memory
?X:
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>. We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val="
set memory.h val
eval $inhdr
```

```
: See if it conflicts with string.h
case "$val" in
$define)
case "$strings" in
") ;;
*)
$cpptest $cpptestflags $cpptestminus < $strings > mem.h
if $contains 'memcpy' mem.h >/dev/null 2>&1; then
echo " "
echo "We won't be including <memory.h>."
val="$undef"
fi
$rm -f mem.h
;;
esac
esac
set i_memory
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_memory.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```

?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
i_time i_systime i_systimek i_sysselect selecttype d_socket \
byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
?S: cleared in the masks if some activity is detected. Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter. This is only useful if
you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected. Usually this
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter. This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
?T:safebits
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
  case "$d_select" in
$define)
$cat <<EOM

```

Checking to see on how many bits at a time your select() operates...

```

EOM
$cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
# include <time.h>
#endif
#ifdef I_SYS_TIME
# ifdef I_SYS_TIME_KERNEL
# define KERNEL
# endif
# include <sys/time.h>
# ifdef I_SYS_TIME_KERNEL

```

```

# undef KERNEL
# endif
#endif
#$i_sysselect
I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
# include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS (NBYTES * 8)
int main() {
    char *s = (char *)malloc(NBYTES);
    struct timeval t;
    int i;
    FILE* fp;
    int fd;

    if (!s)
exit(1);
    fclose(stdin);
    fp = fopen("try.c", "r");
    if (fp == 0)
        exit(2);
    fd = fileno(fp);
    if (fd < 0)
        exit(3);
    b = ($selecttype)s;
    for (i = 0; i < NBITS; i++)
FD_SET(i, b);
    t.tv_sec = 0;
    t.tv_usec = 0;
    select(fd + 1, b, 0, 0, &t);
    for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
    free(s);
    printf("%d\n", i + 1);
    return 0;
}

```

```

}
EOCP
set try
if eval $compile_ok; then
selectminbits=`$run
./try 2>/dev/null`
case "$selectminbits" in
") cat >&4 <<EOM

```

Cannot figure out on how many bits at a time your select() operates.

I'll play safe and guess it is \$safebits bits.

EOM

```

selectminbits=$safebits
bits="$safebits bits"
;;
1) bits="1 bit" ;;
*) bits="$selectminbits bits" ;;
esac
echo "Your select() operates on $bits at a time." >&4
else
rp='What is the minimum number of bits your select() operates on?'
case "$byteorder" in
12345678) dflt=64 ;;
1234) dflt=32 ;;
*) dflt=1 ;;
esac
./myread
val=$ans
selectminbits="$val"
fi
$rm_try
;;
*) : no select, so pick a harmless default
selectminbits=$safebits
;;
esac
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/selectminbits.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_readlink.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:11:52 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_readlink: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_readlink:  
?S: This variable conditionally defines the HAS\_READLINK symbol, which  
?S: indicates to the C program that the readlink() routine is available  
?S: to read the value of a symbolic link.  
?S:.  
?C:HAS\_READLINK :  
?C: This  
symbol, if defined, indicates that the readlink routine is  
?C: available to read the value of a symbolic link.  
?C:.  
?H:#\$d\_readlink HAS\_READLINK /\*\*/  
?H:.  
?LINT:set d\_readlink  
: see if readlink exists  
set readlink d\_readlink  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_readlink.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: install.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: install.U,v \$  
?RCS: Revision 3.0.1.2 1995/09/25 09:16:37 ram  
?RCS: patch59: all possible install programs are now looked for

```

?RCS:
?RCS: Revision 3.0.1.1 1995/01/11 15:30:41 ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
"$install" in
")
tryit="
for dir in $pth; do
for file in ginstall installbsd scoinst install; do
if $test -f $dir/$file; then
tryit="$stryit $dir/$file"
fi
done
done
$cat >try.c <<EOC
int main()
{
printf("OK\n");

```



```

exit(0);
}
EOC
if $cc -o try try.c >/dev/null 2>&1; then
cp try try.ns
strip try >/dev/null 2>&1
else
echo "(I can't seem to compile a trivial C program -- bypassing.)"
echo "try" >try
cp try try.ns
fi
$cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\ $1 -d foo/bar
@end
$mkdir d
\ $1 -c -m 764 try.ns d
\ $1 -c -s -m 642 try.ns d/try
EOS
chmod +x tryinst
$unicefix tryinst
dflt=""
either=""
for prog in $tryit; do
$echo $n "Checking $prog... $c"
./tryinst $prog >/dev/null 2>&1
@if installdir
if $test -d foo/bar; then
creatdir="$prog -d"
fi
@end
(ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
$contains 'rwxrw-r--' tryno.ls && \
\
$contains 'rw-r---w-' try.ls) >/dev/null 2>&1
then
dflt="$prog"
echo "ok, that will do."
break
fi
echo "not good$either."
either='either'
$rm -f try*.ls
done
$rm -rf foo d tryinst try try*.ls try.*

```

```

case "$dflt" in
")
@if { test -f ../install.SH}
echo "Hopefully, $package comes with its own install script!"
dflt='./install'
@else
dflt='install'
@end
;;
esac
*) dflt="$install";;
esac
$cat <<EOM

```

I will be requiring a BSD-compatible install program (one that allows options like -s to strip executables or -m to specify a file mode) to install \$package.

If the question below contains a fully qualified default path, then it is probably ok. If it is an unqualified name such as 'install', then it means I was unable to find out a good install program I could use. If

```

@if { test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
please tell me about it.
@end

```

```

EOM
@if { test -f ../install.SH}
fn=/fe~(install,./install)
@else
fn=/fe~(install)
@end
rp="Which install program shall I use?"
./getfile
install="$ans"

```

```

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root

```

```

$mkdir -p foo/bar >/dev/null 2>&1
if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
else
  case "$creatdir" in
  ")
  if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
  fi
  ;;
  *)
  eval "$creatdir foo/bar" >/dev/null 2>&1
  if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
  else
    creatdir=""
  fi
  ;;
  esac
fi
$rm
-rf foo
case "$creatdir" in
")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
;;
*) installdir="$creatdir";;
esac
;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/install.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_htonl.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_htonl.U,v \$  
?RCS: Revision 3.0.1.2 1994/08/29 16:09:25 ram  
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 14:45:00 ram  
?RCS: patch23: now also check for htonl() macro (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:06:22 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_htonl: Inlibc Setvar i\_niin i\_sysin i\_arpainet cat rm contains \  
cppstdin cppflags cppminus  
?MAKE: -pick  
add \$@ %<  
?S:d\_htonl:  
?S: This variable conditionally defines HAS\_HTONL if htonl() and its  
?S: friends are available to do network order byte swapping.  
?S:.  
?C:HAS\_HTONL (HTONL):  
?C: This symbol, if defined, indicates that the htonl() routine (and  
?C: friends htons() ntohl() ntohs()) are available to do network  
?C: order byte swapping.  
?C:.  
?C:HAS\_HTONS (HTONS):  
?C: This symbol, if defined, indicates that the htons() routine (and  
?C: friends htonl() ntohl() ntohs()) are available to do network  
?C: order byte swapping.  
?C:.  
?C:HAS\_NTOHL (NTOHL):  
?C: This symbol, if defined, indicates that the ntohl() routine (and  
?C: friends htonl() htons() ntohs()) are available to do network  
?C: order byte swapping.  
?C:.  
?C:HAS\_NTOHS (NTOHS):  
?C: This symbol, if defined, indicates that the ntohs() routine (and  
?C: friends htonl() htons() ntohl()) are available to do network  
?C: order byte swapping.  
?C:.

```
?H:#$d_htonl HAS_HTONL /**/  
?H:#$d_htonl HAS_HTONS /**/  
?H:#$d_htonl HAS_NTOHL /**/  
?H:#$d_htonl  
HAS_NTOHS /**/  
?H.:  
?F:!htonl.c  
?LINT:set d_htonl  
: see if htonl --and friends-- exists  
val="  
set htonl val  
eval $inlibc
```

: Maybe they are macros.

```
case "$sval" in  
$undef)  
$cat >htonl.c <<EOM  
#include <stdio.h>  
#include <sys/types.h>  
#$i_niin I_NETINET_IN  
#$i_sysin I_SYS_IN  
#$i_arpainet I_ARPA_INET  
#ifdef I_NETINET_IN  
#include <netinet/in.h>  
#endif  
#ifdef I_SYS_IN  
#include <sys/in.h>  
#endif  
#ifdef I_ARPA_INET  
#include <arpa/inet.h>  
#endif  
#ifdef htonl  
printf("Defined as a macro.");  
#endif  
EOM  
$cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null  
if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then  
val="$define"  
echo "But it seems to be defined as a macro." >&4  
fi  
$rm -f htonl.?  
;;  
esac  
set d_htonl  
eval $setvar
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/modified/d\_htonl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: otherlibdirs.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?RCS: Revision 1.1 1999/07/08 18:20:26 doughera

?RCS: Initial revision

?RCS:

?RCS:

?MAKE:otherlibdirs d\_perl\_otherlibdirs: Myread cat sitelib sitearch \

vendorarch vendorlib Setvar

?MAKE: -pick add \$@ %<

?Y:TOP

?S:otherlibdirs:

?S: This variable contains a colon-separated set of paths for the perl

?S: binary to search for additional library files

or modules.

?S: These directories will be tacked to the end of @INC.

?S: Perl will automatically search below each path for version-

?S: and architecture-specific directories. See inc\_version\_list

?S: for more details.

?S: A value of '' means 'none' and is used to preserve this value

?S: for the next run through Configure.

?S:.

?S:d\_perl\_otherlibdirs:

?S: This variable conditionally defines PERL\_OTHERLIBDIRS, which

?S: contains a colon-separated set of paths for the perl binary to

?S: include in @INC. See also otherlibdirs.

?S:.

?C:PERL\_OTHERLIBDIRS:

?C: This variable contains a colon-separated set of paths for the perl

?C: binary to search for additional library files or modules.

?C: These directories will be tacked to the end of @INC.

?C: Perl will automatically search below each path for version-

?C: and architecture-specific directories. See PERL\_INC\_VERSION\_LIST

?C: for more details.

```
?C:
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs" /**/
?H:
?LINT: set d_perl_otherlibdirs
:
Final catch-all directories to search
$cat <<EOM
```

Lastly, you can have perl look in other directories for extensions and modules in addition to those already specified.

These directories will be searched after

```
$sitearch
```

```
$sitelib
```

```
EOM
```

```
test X"$vendorlib" != "X" && echo ' ' $vendorlib
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
'|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
```

Enter a colon-separated set of extra paths to include in perl's @INC search path, or enter 'none' for no extra paths.

```
EOM
```

```
rp='Colon-separated list of additional directories for perl to search?'
```

```
./myread
case "$ans" in
'|'|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
'|' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/otherlibdirs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent_r.U,v 0RCS:
```

```
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
```

```
?RCS:
```

?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
?RCS:  
?MAKE:d\_getpwent\_r getpwent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_pwd extern\_C  
?MAKE: -pick add \$@ %<  
?S:d\_getpwent\_r:  
?S: This variable conditionally defines the HAS\_GETPWENT\_R symbol,  
?S: which indicates to the C program that the getpwent\_r()  
?S: routine is available.  
?S:.  
?S:getpwent\_r\_proto:  
?S: This variable encodes the prototype of getpwent\_r.  
?S: It is zero if d\_getpwent\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getpwent\_r  
?S: is defined.  
?S:.  
?C:HAS\_GETPWENT\_R:  
?C: This symbol, if defined, indicates that the getpwent\_r routine  
?C: is available to  
getpwent re-entrantly.  
?C:.  
?C:GETPWENT\_R\_PROTO:  
?C: This symbol encodes the prototype of getpwent\_r.  
?C: It is zero if d\_getpwent\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getpwent\_r  
?C: is defined.  
?C:.  
?H:#\$d\_getpwent\_r HAS\_GETPWENT\_R /\*\*/  
?H:#define GETPWENT\_R\_PROTO \$getpwent\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_getpwent\_r\_proto  
: see if getpwent\_r exists  
set getpwent\_r d\_getpwent\_r  
eval \$inlibc  
case "\$d\_getpwent\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_pwd pwd.h"  
case "\$d\_getpwent\_r\_proto:\$usethreads" in  
":define") d\_getpwent\_r\_proto=define  
set d\_getpwent\_r\_proto getpwent\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_getpwent\_r\_proto" in  
define)



```

case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
./protochk
"$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
esac
case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
esac
case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
esac
case "$getpwent_r_proto" in
"|0) d_getpwent_r=undef
getpwent_r_proto=0
echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
* ) case "$getpwent_r_proto" in
REENTRANT_PROTO*) ;;
*) getpwent_r_proto="REENTRANT_PROTO_${getpwent_r_proto}" ;;
esac
echo
"Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "getpwent_r has no prototype, not using it." >&4 ;;
esac
d_getpwent_r=undef
getpwent_r_proto=0
;;
esac
;;
*) getpwent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getpwent\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_setpgid.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:41:49 ram

?RCS: patch61: reworded symbol comments

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:06:40 ram

?RCS: patch16: created

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:56 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_setpgid: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setpgid:

?S: This variable conditionally defines the HAS\_SETPGID symbol if the

?S: setpgid(pid, gpid) function is

available to set process group ID.

?S:.

?C:HAS\_SETPGID:

?C: This symbol, if defined, indicates that the setpgid(pid, gpid)

?C: routine is available to set process group ID.

?C:.

?H:#\$d\_setpgid HAS\_SETPGID /\*\*/

?H:.

?LINT:set d\_setpgid

: see if setpgid exists

set setpgid d\_setpgid

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_setpgid.U

No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_getnameinfo.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:13:10 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:14 ram
?RCS: Baseline for dist 3.0 netwide release.
```

```

?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagesize):
?S: This
variable holds the size in bytes of a system page.
?S:.
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGESIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc

@if pagesize || PAGESIZE_VALUE
: determine the system page size
echo " "
guess='(OK to guess)'
case "$pagesize" in
")
$cat >page.c <<EOP
extern int getpagesize();
int main()
{
printf("%d\n", getpagesize());
}
EOP
echo

```

```

"Computing the granularity of memory management calls..." >&4
dflt='4096'
case "$d_getpagesize" in
"$define")
if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
dflt=`./page`
guess="
else
echo "(I can't seem to compile the test program--guessing)"
fi
;;
*)
if $cc $ccflags -o page page.c $libs -IPW >/dev/null 2>&1; then
dflt=`./page`
guess="
echo "(For your eyes only: I used the getpagesize() from -IPW.)"
else
if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
$cat >page.c <<EOP
#include <sys/param.h>
int main()
{
printf("%d\n", PAGESIZE);
}
EOP
if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
dflt=`./page`
guess="
echo "(Using value of PAGESIZE found in <sys/param.h>.)"
fi
fi
fi
;;
esac
;;
*) dflt="$pagesize"; guess=";;
esac
rp="What is the system page size, in bytes$guess?"
./myread
pagesize=$ans
$rm -f page.c page

@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_getpagesize.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getprotobynumber_r_proto:$usethreads" in
":define") d_getprotobynumber_r_proto=define
set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
```

```

eval $hasproto ;;
*) ;;
esac
case "$d_getprotobynumber_r_proto" in
define)
case "$getprotobynumber_r_proto"
in
"|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
./prochck "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
esac
case "$getprotobynumber_r_proto" in
"|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
./prochck "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
esac
case "$getprotobynumber_r_proto" in
"|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
./prochck "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
esac
case "$getprotobynumber_r_proto" in
"|0) d_getprotobynumber_r=undef
getprotobynumber_r_proto=0
echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
* ) case "$getprotobynumber_r_proto" in
REENTRANT_PROTO*) ;;
*) getprotobynumber_r_proto="REENTRANT_PROTO_${getprotobynumber_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getprotobynumber_r
has no prototype, not using it." >&4 ;;
esac
d_getprotobynumber_r=undef
getprotobynumber_r_proto=0
;;
esac
;;
*) getprotobynumber_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d\_getprotobynumber\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endhostent\_r.U,v 0RCS:

```

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
?S: It is zero if d_endhostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
  available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
  hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
  case "$d_endhostent_r_proto:$usethreads" in
  ":define") d_endhostent_r_proto=define
    set d_endhostent_r_proto endhostent_r $hdrs
    eval $hasproto ;;
  *) ;;
  esac

```



```

case "$d_endhostent_r_proto" in
define)
case "$endhostent_r_proto" in
"|0) try='int endhostent_r(struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
esac
case "$endhostent_r_proto" in
"|0) try='void endhostent_r(struct
hostent_data*);'
./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
esac
case "$endhostent_r_proto" in
"|0) d_endhostent_r=undef
endhostent_r_proto=0
echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
* ) case "$endhostent_r_proto" in
REENTRANT_PROTO*) ;;
*) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "endhostent_r has no prototype, not using it." >&4 ;;
esac
d_endhostent_r=undef
endhostent_r_proto=0
;;
esac
;;
*) endhostent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_endhostent\_r.U

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:st\_ino\_size st\_ino\_sign: cat echo i\_stdlib Setvar Compile run rm\_try

```

?MAKE: -pick add $@ %<
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
    $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
?H:.
?F:!try
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
    struct stat st;
    printf("%d\n", (int)sizeof(st.st_ino));
    exit(0);
}
EOCP
set try
if eval $compile_ok; then
val=`$run ./try`
case "$val" in
    *) st_ino_size=4
        $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
        ;;
    *) st_ino_size=$val
        $echo "Your st_ino is $st_ino_size bytes long."
        ;;
    esac
else

```

```
st_ino_size=4
$echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try
```

: Check if st\_ino is signed

```
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
    struct stat foo;
    foo.st_ino = -1;
    if (foo.st_ino < 0)
        printf("-1\n");
    else
        printf("1\n");
}
EOCP
set
try
if eval $compile; then
    val=`$run ./try`
    case "$val" in
        *) st_ino_sign=1
        $echo "(I can't execute the test program--guessing unsigned.)" >&4
        ;;
        *) st_ino_sign=$val
        case "$st_ino_sign" in
            1) $echo "Your st_ino is unsigned." ;;
            -1) $echo "Your st_ino is signed." ;;
        esac
        ;;
    esac
else
    st_ino_sign=1
    $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/st_ino_def.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

```

?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f $uidformat /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
uidformat="$ivdformat"
else
if $test X"$uidsize" = X"$longsize"; then
uidformat="ld"
else
if $test X"$uidsize" = X"$intsize"; then
uidformat="d"
else
if $test X"$uidsize"
= X"$shortsize"; then
uidformat="hd"
fi
fi
fi
fi
;;
*) if $test X"$uidsize" = X"$uvsize"; then
uidformat="$uvuformat"
else
if $test X"$uidsize" = X"$longsize"; then
uidformat="lu"
else
if $test X"$uidsize" = X"$intsize"; then
uidformat="u"
else
if $test X"$uidsize" = X"$shortsize"; then

```

```
    uidformat="hu"  
    fi  
    fi  
    fi  
    fi  
    ;;  
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/uidf.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sitecustomize.U,v $  
?RCS:  
?RCS: Copyright (c) 2005-2006 H.Merijn Brand  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: $Log: d_sitecustomize.U,v $  
?RCS:  
?MAKE:usesitecustomize: Oldconfig Setvar  
?MAKE: -pick add $@ %<  
?S:usesitecustomize:  
?S: This variable is set to true when the user requires a mechanism that  
?S: allows the sysadmin to add entries to @INC at runtime. This variable  
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.  
?S:.  
?C:USE_SITECUSTOMIZE:  
?C: This symbol, if defined, indicates that sitecustomize should  
?C: be used.  
?C:.  
?H:?%<:@if USE_SITECUSTOMIZE  
?H:?%<:#ifndef USE_SITECUSTOMIZE  
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE /**/  
?H:?%<:#endif  
?H:?%<:@end  
?H:.  
: Check if site customization support was requested  
case "$usesitecustomize" in  
    $define|true|[[Yy]*)  
    usesitecustomize="$define"  
    ;;  
    *)  
    usesitecustomize="$undef"  
    ;;  
esac
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_sitecustomize.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_havetlib.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:36:31 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS: patch61: likewise for .o replaced by \$\_o

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:44:06 ram

?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:19 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_havetlib termlib: cat contains Myread Loc

Filexp Oldconfig libpth \

test uname \_a \_o

?MAKE: -pick add \$@ %<

?S:d\_havetlib:

?S: This variable conditionally defines the HAS\_TERMLIB symbol, which

?S: indicates to the C program that termlib-style routines are available.

?S:.

?S:termlib:

?S: This variable contains the argument to pass to the loader to get

?S: termlib-style routines. It is up to the Makefile.SH to make sure

?S: the value gets to the right command. Note that on many systems the

?S: termlib routines are emulated by the curses or terminfo library.

?S:.

?C:HAS\_TERMLIB (HAVETERMLIB):

?C: This symbol, when defined, indicates that termlib-style routines

?C: are available. There is nothing to include.

?C:.

?H:#\$d\_havetlib HAS\_TERMLIB /\*\*/

?H:.

?T:xxx

```

: where do we get term lib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
/*)
ar t $xxx >grimble
if $contains tputs$_o grimble >/dev/null 2>&1; then
term lib='-lcurses'
d_havetlib="$define"
echo "Terminfo library found." >&4
elif $test "x`$uname
2>/dev/null" = xAIX; then
# Ok, do the AIX shr.o fun thing
/usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
term lib='-lcurses'
d_havetlib="$define"
echo "AIX Terminfo library found." >&4
else
xxx=x
fi
else
xxx=x
fi
rm -f grimble
;;
esac
case "$xxx" in
x)
xxx=`./loc libterm lib$_a x $libpth`
case "$xxx" in
/usr/lib*/lib*)
term lib='-lterm lib'
d_havetlib="$define"
echo "Term lib library found." >&4
;;
/*)
term lib="$xxx"
d_havetlib="$define"
echo "Term lib library found." >&4
;;
*)
xxx=`./loc libterm cap$_a x $libpth`
case "$xxx" in
/usr/lib*/lib*)
term lib='-lterm cap'
d_havetlib="$define"
echo "Term cap library found." >&4

```

```

;;
/*)
termlib="$xxx"
d_havetlib="$define"
echo "Termcap library found." >&4
;;
*)
case "$termlib" in
")
dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
./myread
case "$ans"
in
n*|f*) d_havetlib="$define"
$cat <<'EOM'

```

Then where are the termlib-style routines kept? Specify either -llibname or a full pathname (~name ok).

EOM

```

dflt="
rp='Specify termlib path:'
./myread
termlib=`./filexp $ans`
;;
*)
d_havetlib="$undef"
termlib="
echo "You will have to play around with term.c then." >&4
;;
esac
echo " ";;
*) echo "You said termlib was $termlib before." >&4;;
esac;;
esac;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_havetlib.U

```

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?RCS: \$Id\$

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?RCS:

?RCS: \$Log: d\_strerror.U,v \$

?RCS: Revision 3.0.1.3 1994/05/13 15:20:27 ram

?RCS: patch27: now uses new macro support for cleaner Strerror def

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 14:58:26 ram

?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:08:56 ram

?RCS: patch16: protected code looking for sys\_errnolist[] with @if

?RCS: patch16: added default value for d\_syserrlst

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:35 ram

?RCS: Baseline

for dist 3.0 netwide release.

?RCS:

?MAKE:d\_strerror d\_syserrlst d\_syserrlst d\_strerror: contains Csym Findhdr

?MAKE: -pick add \$@ %<

?S:d\_strerror:

?S: This variable conditionally defines HAS\_STRERROR if strerror() is

?S: available to translate error numbers to strings.

?S:.

?S:d\_syserrlst:

?S: This variable conditionally defines HAS\_SYS\_ERRLIST if sys\_errlist[] is

?S: available to translate error numbers to strings.

?S:.

?S:d\_syserrlst:

?S: This variable conditionally defines HAS\_SYS\_ERRNOLIST if sys\_errnolist[]

?S: is available to translate error numbers to the symbolic name.

?S:.

?S:d\_strerror:

?S: This variable holds what Strerrr is defined as to translate an error

?S: code condition into an error message string. It could be 'strerror'

?S: or a more complex macro emulating strrror with sys\_errlist[], or the

?S: "unknown" string when both strerror and sys\_errlist are missing.

?S:.

?C:HAS\_STRERROR (STRERROR):

?C: This symbol, if defined, indicates that the strerror routine is

?C: available

to translate error numbers to strings. See the writeup

?C: of Strerror() in this file before you try to define your own.

?C:.

?C:HAS\_SYS\_ERRLIST (SYSERRLIST):

?C: This symbol, if defined, indicates that the sys\_errlist array is

```

?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_syserrnolist HAS_SYS_ERRNOLIST /**/
?H:#define Strerror(e) $d_strerror
?H:.
?D:d_syserrnolist="
?T:xxx val
: see if strerror and/or sys_errlist[]
exist
echo " "
if set strerror val -f d_strerror; eval $csym; $val; then
echo 'strerror() found.' >&4
d_strerror="$define"
d_strerrorm='strerror(e)'
if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "(You also have sys_errlist[], so we could roll our own strerror.)"
d_syserrlst="$define"
else
echo "(Since you don't have sys_errlist[], strerror() is welcome.)"
d_syserrlst="$undef"
fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
$contains '#[ ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
echo 'strerror() found in string header.' >&4
d_strerror="$define"
d_strerrorm='strerror(e)'
if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
d_syserrlst="$define"
else
echo "(You don't appear to have any sys_errlist[], how can this be?)"
d_syserrlst="$undef"
fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()

```

```

not found, but you have sys_errlist[] so we'll use that." >&4
d_strerror="$undef"
d_syserrlst="$define"
d_strerrorm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
echo 'strerror() and sys_errlist[] NOT found.' >&4
d_strerror="$undef"
d_syserrlst="$undef"
d_strerrorm=""unknown""
fi
@if d_syserrlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_syserrlst; eval $csym; $val; then
echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
d_syserrlst="$define"
else
echo "(However, I can't extract the symbolic error code out of errno.)"
d_syserrlst="$undef"
fi
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1-rc1/dist/U/d_strerror.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:20 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains

```

the value eventually given to the symbol

?S: HIDDEN\_NET, if d\_hidnet defines it. If defined, it's the name

?S: of the host which serves as the mail server for a network that

?S: is invisible to the outside world.

?S:.

?C:HIDDEN\_NET (HIDDENNET):

?C: This symbol, if defined, contains the host name that you want to

?C: advertise to the outside world. This name can be different from

?C: your actual host name, as long as the machine you specify knows

?C: how to forward mail to you.

?C:.

?H:#\$d\_hidnet HIDDEN\_NET "\$hiddennet" /\*\*/

?H:.

: now get the host name to advertise as our mailing address

case "\$hiddennet" in

) dflt=n;;

\*) dflt=y;;

esac

\$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears to the outside world as a single machine. The advertised name of any host on this hidden network is the name of one machine on the local network which knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname

to the world than the one your

own host (\$myhostname\$mydomain) has?

EOM

rp='Use "hidden" network?'

./myread

case "\$ans" in

n\*) d\_hidnet="\$undef" hiddennet="";

\*)

d\_hidnet="\$define"

echo " "

case "\$hiddennet" in

) dflt=`echo \$mydomain | \$sed -e 's/^\./\/'`;;

\*) dflt="\$hiddennet";

esac

rp='What hostname do you wish to advertise?'

./myread

hiddennet="\$ans"

::

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_hidnet.U

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_snprintf\_1 d\_vsnprintf\_1 : Inlibc d\_snprintf d\_vsnprintf

?MAKE: -pick add \$@ %<

?S:d\_snprintf\_1:

?S: This variable conditionally defines the HAS\_SNPRINTF\_L symbol, which

?S: indicates to the C program that the snprintf\_1 () library function

?S: is available.

?S:.

?S:d\_vsnprintf\_1:

?S: This variable conditionally defines the HAS\_VSNPRINTF\_L symbol, which

?S: indicates to the C program that the vsnprintf\_1 () library function

?S: is available.

?S:.

?C:HAS\_SNPRINTF\_L:

?C: This symbol, if defined, indicates that the snprintf\_1 () library

?C: function

is available for use.

?C:.

?C:HAS\_VSNPRINTF\_L:

?C: This symbol, if defined, indicates that the vsnprintf\_1 () library

?C: function is available for use.

?C:.

?H:#\$d\_snprintf\_1 HAS\_SNPRINTF\_L /\*\*/

?H:#\$d\_vsnprintf\_1 HAS\_VSNPRINTF\_L /\*\*/

?H:.

: see if snprintf\_1 exists

set snprintf\_1 d\_snprintf\_1

eval \$inlibc

: see if vsnprintf\_1 exists

set vsnprintf\_1 d\_vsnprintf\_1

eval \$inlibc

case "\$d\_snprintf-\$d\_vsnprintf-\$d\_snprintf\_1-\$d\_vsnprintf\_1" in

"\$define-\$define-\$define-\$define")

;;

\*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"

```
d_sprintf_1="$undef"  
d_vsprintf_1="$undef"  
;;  
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_sprintf_1.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: models.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: models.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:13:17 ram

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:02:39 ram

?RCS: patch6: added default for large

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:17 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \

Loc contains rm

?MAKE: -pick add \$@ %<

?S:models:

?S: This variable contains

the list of memory models supported by this

?S: system. Possible component values are none, split, unsplit, small,

?S: medium, large, and huge. The component values are space separated.

?S:.

?S:split:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program that will run in separate I and D space, for those

?S: machines that support separation of instruction and data space. It is

?S: up to the Makefile to use this.

?S:.

?S:small:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program running with a small memory model. It is up to

?S: the Makefile to use this.

?S:.

?S:medium:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program running with a medium memory model. If the

?S: medium model is not supported, contains the flag to produce large

?S: model programs. It is up to the Makefile to use this.

?S:.

?S:large:

?S: This variable contains a flag

which will tell the C compiler and loader

?S: to produce a program running with a large memory model. It is up to

?S: the Makefile to use this.

?S:.

?S:huge:

?S: This variable contains a flag which will tell the C compiler and loader

?S: to produce a program running with a huge memory model. If the

?S: huge model is not supported, contains the flag to produce large

?S: model programs. It is up to the Makefile to use this.

?S:.

?T:unsplit tans modelcc

?F:!pdp11

?D:large="

?LINT:extern cc

: see what memory models we can support

case "\$models" in

")

?X: We may not use Cppsym or we get a circular dependency through cc.

?X: But this should work regardless of which cc we eventually use.

```
$cat >pdp11.c <<'EOP'
```

```
int main() {
```

```
#ifdef pdp11
```

```
exit(0);
```

```
#else
```

```
exit(1);
```

```
#endif
```

```
}
```

```
EOP
```

?X: Run cc in a subshell in case they don't have a 'cc' command.

?X: Presumably they do have gcc or something.

```
case "$cc" in
```

```
") modelcc="$cc" ;;
```

```
*) modelcc="cc" ;;
```

```
esac
```

```
( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
```

```
if
```

```
$test -f pdp11 && ./pdp11 2>/dev/null; then
```

```
dflt='unsplit split'
```

```

else
tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
case "$tans" in
X) dflt='none';;
*) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
    else
    dflt=""
    fi
if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
    fi
if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
    fi
if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
    fi
esac
fi;;
*) dflt="$models";;
esac
$cat <<EOM

```

Some systems have different model sizes. On most systems they are called small, medium, large, and huge. On the PDP11 they are called unsplit and split. If your system doesn't support different memory models, say "none". If you wish to force everything to one memory model, say "none" here and put the appropriate flags later when it asks you for other cc and ld flags.

Venix systems may wish to put "none" and let the compiler figure things out. (In the following question multiple model names should be space separated.)

The default for most systems is "none".

```

EOM
rp="Which memory models are supported?"
./myread
models="$ans"

```

```

case "$models" in
none)
small=""
medium=""
large=""
huge=""
unsplit=""
split=""

```



```

;;
*split)
case "$split" in
") if $contains \-i' $sysman/ld.1 >/dev/null 2>&1 || \
  $contains \-i' $sysman/cc.1 >/dev/null 2>&1; then
  dflt='-i'
else
  dflt='none'
fi;;
*) dflt="$split";;
esac
rp="What flag indicates separate I and D space?"
. ./myread
tans="$ans"
case "$tans" in
none) tans="";;
esac
split="$tans"
unsplit="";;
*large*|*small*|*medium*|*huge*)
case "$models" in
*large*)
case "$large" in
") dflt='-Ml';;
*) dflt="$large";;
esac
rp="What flag indicates large model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans="";;
esac
large="$tans";;
*) large="";;
esac
case "$models"
in
*huge*) case "$huge" in
") dflt='-Mh';;
*) dflt="$huge";;
esac
rp="What flag indicates huge model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans="";;
esac
huge="$tans";;

```

```

*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
") dflt='-Mm';;
*) dflt="$medium";;
esac
rp="What flag indicates medium model?"
./myread
tans="$sans"
case "$tans" in
none) tans="";
esac
medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
") dflt='none';;
*) dflt="$small";;
esac
rp="What flag indicates small model?"
./myread
tans="$sans"
case "$tans" in
none) tans="";
esac
small="$tans";;
*) small="";;
esac
;;
*)
echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
;;
esac
$rm -f pdp11.* pdp11

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/models.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Myinit.U,v \$  
?RCS: Revision 3.0.1.1 1994/10/31 09:47:29 ram  
?RCS: patch44: leading comment states this unit comes before option processing  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:07 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: If you want to initialize any default values, copy this unit to your  
?X: personal U directory and add the assignments to the end. This file  
?X: is included after variables are initialized but before any old  
?X: config.sh file is read in and before  
any Configure switch processing.  
?X:  
?MAKE:Myinit: Init  
?MAKE: -pick add \$@ %<  
?LINT: nocomment

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Myinit.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1999 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:usesocks: Myread Oldconfig Setvar  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:usesocks:  
?S: This variable conditionally defines the USE\_SOCKS symbol,  
?S: and indicates that Perl should be built to use SOCKS.  
?S:.  
?C:USE\_SOCKS:  
?C: This symbol, if defined, indicates that Perl should  
?C: be built to use socks.  
?C:.  
?H:%<:#ifndef USE\_SOCKS  
?H:%<:#\$usesocks USE\_SOCKS /\*\*/  
?H:%<:#endif

```
?H:
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';
*) dflt='n';;
esac
cat <<EOM
```

Perl can be built to  
use the SOCKS proxy protocol library. To do so,  
Configure must be run with -Dusesocks. If you use SOCKS you also need  
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '\$dflt'.

```
EOM
rp='Build Perl for SOCKS?'
./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/usesocks.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:07:17 ram
?RCS: patch32: created by ADO
```

?RCS:  
?MAKE:d\_chroot: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_chroot:  
?S: This variable conditionally defines the HAS\_CHROOT symbol, which  
?S: indicates to the C program that the chroot() routine is available.  
?S:.  
?C:HAS\_CHROOT :  
?C: This symbol, if defined, indicates that the chroot routine  
is  
?C: available.  
?C:.  
?H:#\$d\_chroot HAS\_CHROOT /\*\*/  
?H:.  
?LINT:set d\_chroot  
: see if chroot exists  
set chroot d\_chroot  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_chroot.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysutsname.U,v \$  
?RCS:  
?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_sysutsname: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_sysutsname:  
?S: This variable conditionally defines the I\_SYSUTSNAME symbol,  
?S: and indicates whether a C program should include <sys/utsname.h>.  
?S:.  
?C:I\_SYSUTSNAME:  
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_sysutsname I\_SYSUTSNAME /\*\*/  
?H:.  
?LINT:set i\_sysutsname  
: see if this is a sys/utsname.h system  
set sys/utsname.h i\_sysutsname  
eval \$inhdr

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_sysutsname.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:12:40 ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:57 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
the EOF
?S: condition when pipe is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
echo "Let's see if your pipes return EOF to select() upon closing..." >&4
$cat >pipe.c <<'EOP'
int main()
{
int pd[2];
```

```

int mask;

pipe(pd);
if (0 == fork()) {
    close(pd[0]);
    close(pd[1]);
    exit(0);
}

close(pd[1]);
mask = 1 << pd[0];
alarm(2);
select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
if (0 == read(pd[0], &mask, 1))
    exit(0);

exit(1);
}
EOP
set pipe
if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
echo "./pipe || exit 1" > mpipe
chmod
+x mpipe
./mpipe >/dev/null 2>&1
case $? in
0) d_eofpipe="$define";;
*) d_eofpipe="$undef";;
esac
else
echo "(The test program did not compile correctly -- Guessing.)"
if ./bsd; then
    d_eofpipe="$define"
else
    d_eofpipe="$undef"
fi
fi
case "$d_eofpipe" in
"$define") echo "Yes, they do.";;
*) echo "No, they don't! (sigh)";;
esac
;;
*)
$echo $n "Your pipes $c"
case "$d_eofpipe" in
"$define") echo "allow select() to see EOF upon closing.";;
*) echo "won't let select() see EOF on closing.";;

```

```
esac
;;
esac
$rm -f *pipe* core
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_eofpipe.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_class: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_class:

?S: This variable conditionally defines the HAS\_CLASS symbol, which

?S: indicates to the C program that the class() routine is available.

?S:.

?C:HAS\_CLASS:

?C: This symbol, if defined, indicates that the class routine is

?C: available to classify doubles. Available for example in AIX.

?C: The returned values are defined in <float.h> and are:

?C:

?C: FP\_PLUS\_NORM Positive normalized, nonzero

?C: FP\_MINUS\_NORM Negative normalized, nonzero

?C: FP\_PLUS\_DENORM Positive denormalized, nonzero

?C: FP\_MINUS\_DENORM Negative denormalized, nonzero

?C: FP\_PLUS\_ZERO +0.0

?C: FP\_MINUS\_ZERO -0.0

?C: FP\_PLUS\_INF +INF

?C: FP\_MINUS\_INF -INF

?C: FP\_NANS Signaling

Not a Number (NaNS)

?C: FP\_NANQ Quiet Not a Number (NaNQ)

?C:.

?H:#\$d\_class HAS\_CLASS /\*\*/

?H:.

?LINT:set d\_class

: see if class exists

set class d\_class

eval \$inlibc

Found in path(s):



```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_class.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
```

```
?RCS: $Log: i_dlfcn.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/08/29 16:21:53 ram
```

```
?RCS: patch32: created by ADO
```

```
?RCS:
```

```
?MAKE:i_dlfcn: Inhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_dlfcn:
```

```
?S: This variable conditionally defines the I_DLFCN symbol, which
```

```
?S: indicates to the C program that <dlfcn.h> exists and should
```

```
?S: be included.
```

```
?S:.
```

```
?C:I_DLFCN:
```

```
?C: This symbol, if defined, indicates that <dlfcn.h> exists
```

```
and should
```

```
?C: be included.
```

```
?C:.
```

```
?H:#$i_dlfcn I_DLFCN /**/
```

```
?H:.
```

```
?LINT:set i_dlfcn
```

```
: see if dlfcn is available
```

```
set dlfcn.h i_dlfcn
```

```
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_dlfcn.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Warn\_v7EXT.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:01:42 ram

?RCS: patch36: call ./v7 explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:17 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit issues warnings to V7 sites that they are living dangerously.

?X: This unit needs to get mentioned in End.U to get included.

?X:

?MAKE:Warn\_v7EXT: package Guess

?MAKE: -pick add \$@ %<

: Warnings

if ./v7;

then

cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that \$package uses. If so,  
you may get messages about redefining EXT. Some V7 compilers also have  
difficulties with #defines near buffer boundaries, so beware. You may have  
to play with the spacing in some .h files, believe it or not.

EOM

fi

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/dist/U/Warn\_v7EXT.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2004 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strlcat: Inlibc Hasproto d\_gnulibc

?MAKE: -pick add \$@ %<

?S:d\_strlcat:

?S: This variable conditionally defines the HAS\_STRLCAT symbol, which

?S: indicates to the C program that the strlcat () routine is available.

```

?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='# define _GNU_SOURCE'
xx4='#endif'
set d_strlcat_proto
strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
    define) # see if strlcat exists
set strlcat d_strlcat
eval $inlibc
;;
    *) val=$undef
set d_strlcat
eval $setvar
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strlcat.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:01 ram

```

?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_wait3: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_wait3:  
?S: This variable conditionally defines the HAS\_WAIT3 symbol, which  
?S: indicates to the C program that the wait3() subroutine exists.  
?S:.  
?C:HAS\_WAIT3:  
?C: This symbol, if defined, indicates that the wait3() subroutine  
?C: exists.  
?C:.  
?H:#\$d\_wait3 HAS\_WAIT3 /\*\*/  
?H:.  
?LINT:set d\_wait3  
:  
  see if 'wait3()' exists  
  set wait3 d\_wait3  
  eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_wait3.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Copyright (c) 2000, Jarkko Hietaniemi  
?RCS:  
?MAKE:gccversion gccosandvers: cat cpp rm +cc \  
  Myread Guess Options Oldconfig Loc osname osvers grep run ccname  
?MAKE: -pick add \$@ %<  
?S:gccversion:  
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)  
?S: to indicate whether the compiler is version 1 or 3. This is used in  
?S: setting some of the default cflags. It is set to " if not gcc.  
?S:.  
?S:gccosandvers:  
?S: If GNU cc (gcc) is used, this variable the operating system and  
?S: version

```

used to compile the gcc. It is set to " if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
printf("%s\n", __VERSION__);
#else
printf("%s\n", "1");
#endif
#endif
exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
gccversion=`$run ./try`
case "$gccversion" in
") echo "You are not using GNU cc." ;;
*) echo "You are using GNU cc $gccversion."
ccname=gcc
;;
esac
else
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo " Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
case "$knowitall" in
")
echo " You'd better
start hunting for one and let me know about it." >&4
exit 1
;;
esac
fi
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac

```

```

case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'^
gccosandvers=`$cc -v 2>&1 | \
$grep '/specs$'|sed "s!.*[/^-/]*-[/^-/]*-([/^-/]*)/$gccshortvers/specs!\\1!"^
gccshortvers="
case "$gccosandvers" in
$osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, gr
$osname$osvers) ;; # looking good
$osname*) cat <<EOM >&4

```

\*\*\* WHOA THERE!!! \*\*\*

Your gcc has not been compiled for the exact release of your operating system (\$gccosandvers versus \$osname\$osvers).

In general it is a good idea to keep gcc synchronized with the operating system because otherwise serious problems may ensue when trying to compile software, like Perl.

I'm trying to be optimistic here, though, and will continue.

If later during the configuration and build icky compilation problems appear (headerfile conflicts being the most common manifestation), I suggest reinstalling the gcc to match your operating system release.

EOM

```

;;
*) gccosandvers=" ;; # failed to parse, better be silent
esac
;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

```

: gcc 3.1 complains about adding -Idirectories that it already knows about, : so we will take those off from locincpth.

```

case "$gccversion" in
3*)
echo "main(){}">try.c
for indir in ` $cc -v -c try.c 2>&1 | \
sed '1,/^\#include <\\.\\.\\.>/d;/^\#End of search list/,$/d;s/^ //'^ ; do
locincpth=`echo $locincpth | sed s!$indir!!^
done
$rm -f try try.*
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/gccvers.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>

?RCS:

?RCS: \$Log: Findhdr.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 15:53:08 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:03:56 ram

?RCS: patch23: cppminus must be after other cppflags, not before

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:54 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a findhdr script which is used to locate the header

?X: files

in \$usrinc or other stranger places using cpp capabilities. The

?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'

?X: and it returns the full path of the include file and a zero status or an

?X: empty string with an error status if the file could not be located.

?X:

?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \

cppstdin cppminus +cppflags eunicefix osname

?MAKE: -pick add \$@ %<

?LINT:define fieldn

?S:fieldn:

?S: This variable is used internally by Configure. It contains the position

?S: of the included file name in cpp output. That is to say, when cpp

?S: pre-processes a #include <file> line, it replaces it by a # line which

?S: contains the original position in the input file and the full name of

?S: included file, between "quotes".

?S:.

?V:fieldn

```

?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
testaccess=-e
?X: VOS: path component separator is >
cppfilter="tr '\\\\>' '/' |"
;;
*)
testaccess=-r
cppfilter="
;;
esac
$cat >fieldn <<EOF
$startsh
$cpptest $cpptest $cpptest <foo.c 2>/dev/null | \
$grep '^[ ]*#.*stdio.h'| \
while read cline; do
pos=1
set $cline
while $test $# -gt 0; do
if $test $testaccess `echo $1 | $tr -d ""`; then
echo "$pos"
exit 0
fi
shift
pos=`expr $pos + 1`
done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="{fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

```

?X: To locate a header file, we cannot simply check for \$usrinc/file.h, since



?X: some machine have the headers in weird places and our only hope is that  
?X: the C pre-processor will know how to find those headers. Thank you Next!

: locate header file

\$cat

```
>findhdr <<EOF
```

```
$startsh
```

```
wanted=\$1
```

```
name=""
```

```
for usrinmdir in $usrinc; do
```

```
  if test -f \$usrinmdir/\$wanted; then
```

```
    echo "\$usrinmdir/\$wanted"
```

```
    exit 0
```

```
  fi
```

```
done
```

```
awkprg='{ print \$$fieldn }'
```

```
echo "#include <\$wanted>" > foo\$\$.c
```

```
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
```

```
$cppfilter $grep "^[ ]*#.*\$wanted" | \
```

```
while read cline; do
```

```
  name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
```

```
  case "\$name" in
```

```
    *[\|\\\]\$wanted) echo "\$name"; exit 1;;
```

```
    *[\|\\\]\$wanted) echo "\$name"; exit 1;;
```

```
    *) exit 2;;
```

```
  esac
```

```
done
```

?X: status = 0: grep returned 0 lines, case statement not executed

?X: status = 1: headerfile found

?X: status = 2: while loop executed, no headerfile found

```
status=\$?
```

```
$rm -f foo\$\$.c
```

```
if test \$status -eq 1; then
```

```
  exit 0
```

```
fi
```

```
exit 1
```

```
EOF
```

```
chmod +x findhdr
```

```
$eunicefix findhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Findhdr.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

```

?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:15:51 ram
?RCS: patch36: call ./Cpplib explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:27 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cpplib Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
?S: indicates to the C program that it can
    burn memory in order to save
    CPU time.
?S:
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time. The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'

```

I can try to optimize this package for either speed or memory. If you have limited address space you may wish to optimize for memory. Otherwise you should probably optimize for speed.

```

EOM
case "$d_speedopt" in
") if ./Cpplib $smallmach; then
case "$models" in
*large*|*huge*) dflt=speed;;
*) dflt=memory;;
esac
else
dflt=speed
fi
;;
*define*) dflt=speed;;

```

```
*) dflt=memory;;
esac
rp="What to optimize for?"
./myread
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
esac
set d_speedopt
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_speedopt.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:48:01 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:10:54 ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition
of the sys_errnolist array, if the C library
?S: doesn't provide it already. Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S: case "$errnolist" in
?S: ") ;;
?S: *)
?S: $spitshell >>Makefile <<!GROK!THIS!
```

```

?S: $errnolist_c: $errnolist_SH $errnolist_a
?S: sh ./$errnolist_SH
?S:
?S: !GROK!THIS!
?S: ;;
?S: esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistic.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already. Otherwise, its value is
empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
    errnolist="
    errnolist_SH="
    errnolist_a="
    errnolist_c="
    errnolist_o="
;;
*)
echo " "
echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
    errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
    errnolist_c=$errnolist.c
    errnolist_o=$errnolist$_o
;;
esac
@else
echo " "

```

```

$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[...]
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
    char *p0 = sys_errnolist[0];
    char *p1 = sys_errnolist[1];

    return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
    echo "It does."
    errnolist=""
    errnolist_SH=""
    errnolist_a=""
    errnolist_c=""
    errnolist_o=""
else
    echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
    errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$a
    errnolist_c=$errnolist.c
    errnolist_o=$errnolist$o
fi
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/errnolist.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: Ins.U,v \$

?RCS: Revision 3.0.1.1 1994/06/20 07:05:52 ram

```

?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported). Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
?LINT:extern newsh
: determine whether symbolic links are supported
echo
" "
case "$lns" in
*"ln"* -s")
echo "Checking how to test for symbolic links..." >&4
$lns blurfl sym
if $test "X$issymlink" = X; then
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
case "$newsh" in
") sh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
*) $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
esac
if test $? = 0; then
issymlink="test -h"
else
echo "Your builtin 'test -h' may be broken." >&4
case "$stest" in
/*) ;;
*) pth=`echo $PATH | sed -e "s/$p_/ /g"`
for p in $pth
do
if test -f "$p/$stest"; then
test="$p/$stest"
break
fi
done
;;
esac
case "$stest" in
/*)
echo "Trying external '$stest -h'." >&4
issymlink="$stest -h"
if $stest ! -h sym >/dev/null 2>&1; then

```

```

    echo "External '$test -h' is broken, too." >&4
    issymLink="
fi
;;
*) issymLink=" ;;
esac
fi
fi
if $test "X$issymLink" = X; then
if $test -L sym 2>/dev/null; then
    issymLink="$test
-L"
    echo "The builtin '$test -L' worked." >&4
fi
fi
if $test "X$issymLink" != X; then
    echo "You can test for symbolic links with '$issymLink'." >&4
else
    echo "I do not know how you can test for symbolic links." >&4
fi
$rm -f blurfl sym
;;
*) echo "No symbolic links, so not testing for their testing..." >&4
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/issymLink.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_sysfile.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 14:11:36 ram

?RCS: patch56: removed <> characters from comment, per metalint suggestion

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:01:23 ram

?RCS: patch6: added default for i\_sysfile

?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:08:31 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
?C:.
?H:#$i_sysfile I_SYS_FILE /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
: see if this is a sys/file.h system
val="
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
echo " "
if $h_sysfile; then
val="$define"
echo "We'll be including <sys/file.h>." >&4
else
val="$undef"
echo "We won't be including <sys/file.h>." >&4
fi
;;
*)
h_sysfile=false
;;
esac
set i_sysfile
eval $setvar

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/i_sysfile.U

```



No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/i_sysvfs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:17:09 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```

?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
echo "Checking to see how big your floating point numbers are..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
printf("%d\n", sizeof(float));
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
dflt=`./try`
else
dflt='4'
echo "(I can't seem to compile the test program. Guessing...)"
fi
;;
*)
dflt="$floatsize"
;;
esac
rp="What is the size of a floating point number (in bytes)?"
./myread
floatsize="$ans"
$rm -f try.c try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/floatsize.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_gethostent_r.U,v 0RCS:

```

```

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
  available to gethostent re-entrantly.
?C:.
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
  hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
  case "$d_gethostent_r_proto:$usethreads" in
  ":define") d_gethostent_r_proto=define
    set d_gethostent_r_proto gethostent_r $hdrs
    eval $hasproto ;;
  *) ;;
  esac

```

```

case "$d_gethostent_r_proto" in
define)
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
esac
case "$gethostent_r_proto"
in
"|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
esac
case "$gethostent_r_proto" in
"|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
esac
case "$gethostent_r_proto" in
"|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
esac
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, char*, int);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
esac
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
esac
case "$gethostent_r_proto" in
"|0) d_gethostent_r=undef
gethostent_r_proto=0
echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
* ) case
"$gethostent_r_proto" in
REENTRANT_PROTO*) ;;
*) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "gethostent_r has no prototype, not using it." >&4 ;;
esac
d_gethostent_r=undef
gethostent_r_proto=0
;;
esac
;;
*) gethostent_r_proto=0

```

```
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_gethostent_r.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getservbyname\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getservbyname\_r getservbyname\_r\_proto: Inlibc Protochk Hasproto \  
i\_systypes usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getservbyname\_r:

?S: This variable conditionally defines the HAS\_GETSERVBYNAME\_R symbol,

?S: which indicates to the C program that the getservbyname\_r()

?S: routine is available.

?S:.

?S:getservbyname\_r\_proto:

?S: This variable encodes the prototype of getservbyname\_r.

?S: It is zero if d\_getservbyname\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getservbyname\_r

?S: is defined.

?S:.

?C:HAS\_GETSERVBYNAME\_R:

?C: This symbol, if defined, indicates

that the getservbyname\_r routine

?C: is available to getservbyname re-entrantly.

?C:.

?C:GETSERVBYNAME\_R\_PROTO:

?C: This symbol encodes the prototype of getservbyname\_r.

?C: It is zero if d\_getservbyname\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getservbyname\_r

?C: is defined.

?C:.

?H:#\$d\_getservbyname\_r HAS\_GETSERVBYNAME\_R /\*\*/

?H:#define GETSERVBYNAME\_R\_PROTO \$getservbyname\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_getservbyname\_r\_proto

: see if getservbyname\_r exists

set getservbyname\_r d\_getservbyname\_r

eval \$inlibc

```

case "$d_getservbyname_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getservbyname_r_proto:$usetthreads" in
":define") d_getservbyname_r_proto=define
set d_getservbyname_r_proto getservbyname_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getservbyname_r_proto" in
define)
case "$getservbyname_r_proto" in
"|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
size_t, struct servent**);'
./protochk "$xtern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
esac
case "$getservbyname_r_proto" in
"|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
./protochk "$xtern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
esac
case "$getservbyname_r_proto" in
"|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
./protochk "$xtern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
esac
case "$getservbyname_r_proto" in
"|0) d_getservbyname_r=undef
getservbyname_r_proto=0
echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
* ) case "$getservbyname_r_proto" in
REENTRANT_PROTO*) ;;
*) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
esac
d_getservbyname_r=undef
getservbyname_r_proto=0
;;
esac
;;
*) getservbyname_r_proto=0
;;
esac

```

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getservbyname\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getppid.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_getppid.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:07:45 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_getppid: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getppid:

?S: This variable conditionally defines the HAS\_GETPPID symbol, which

?S: indicates to the C program that the getppid() routine is available

?S: to get the parent process ID.

?S:.

?C:HAS\_GETPPID :

?C: This symbol,

if defined, indicates that the getppid routine is

?C: available to get the parent process ID.

?C:.

?H:#\$d\_getppid HAS\_GETPPID /\*\*/

?H:.

?LINT:set d\_getppid

: see if getppid exists

set getppid d\_getppid

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_getppid.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_endnent.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:09 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_endnent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_endnent:  
?S: This variable conditionally defines HAS\_ENDNETENT if endnent() is  
?S: available to close whatever was being used for network queries.  
?S:.  
?C:HAS\_ENDNETENT:  
?C: This symbol, if defined, indicates that the endnent() routine is  
?C: available to close whatever was being used for network  
queries.  
?C:.  
?H:#\$d\_endnent HAS\_ENDNETENT /\*\*/  
?H:.  
?LINT:set d\_endnent  
: see if endnent exists  
set endnent d\_endnent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_endnent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2009 H.Merijn Brand  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_inetpton: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_inetpton:  
?S: This variable conditionally defines the HAS\_INETPTON symbol,  
?S: which indicates to the C program that the inet\_pton() function  
?S: is available.  
?S:.



?C:HAS\_INETPTON:

?C: This symbol, if defined, indicates that the inet\_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetpton HAS\_INETPTON /\*\*/

?H:.

?LINT:set d\_inetpton

: see if inet\_pton exists

set inet\_pton d\_inetpton

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_inetpton.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: cpp\_stuff.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cpp\_stuff.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:08:24 ram

?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)

?RCS: patch36: remove temporary files when done

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:36 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:cpp\_stuff: cat contains cppstdin cppflags cppminus rm

?MAKE: -pick add \$@ %<

?S:cpp\_stuff:

?S: This variable contains an identification of the concatenation  
mechanism

?S: used by the C preprocessor.

?S:.

?C:CAT2:

?C: This macro concatenates 2 tokens together.

?C:.

?C:CAT3:

?C: This macro concatenates 3 tokens together.

?C:.

?C:CAT4:

?C: This macro concatenates 4 tokens together.  
?C:.  
?C:CAT5:  
?C: This macro concatenates 5 tokens together.  
?C:.  
?C:STRINGIFY:  
?C: This macro surrounds its token with double quotes.  
?C:.  
?C:SCAT2:  
?C: This macro concatenates 2 tokens together and stringifies the result.  
?C: It might not exist, so #ifdef it in your code!  
?C:.  
?C:SCAT3:  
?C: This macro concatenates 3 tokens together and stringifies the result.  
?C: It might not exist, so #ifdef it in your code!  
?C:.  
?C:SCAT4:  
?C: This macro concatenates 4 tokens together and stringifies the result.  
?C: It might not exist, so #ifdef it in your code!  
?C:.  
?C:SCAT5:  
?C: This macro concatenates 5 tokens together and stringifies the result.  
?C: It might not exist, so #ifdef it in your code!  
?C:.  
?X: Dist pl70 included the following, but AIX's xlc compiler  
?X: (which  
is ANSI-ish and has cpp\_stuff == 42)) rejects  
?X: The SQuoTe/EQuoTe stuff because the string literals are on  
?X: separate lines. Sigh.  
?X: Andy Dougherty 24 Feb 1998  
?X: ?H:??<:#if \$cpp\_stuff == 1  
?X: ?H:CAT2:#define CAT2(a,b)a/\*\*/b  
?X: ?H:CAT3:#define CAT3(a,b,c)a/\*\*/b/\*\*/c  
?X: ?H:CAT4:#define CAT4(a,b,c,d)a/\*\*/b/\*\*/c/\*\*/d  
?X: ?H:CAT5:#define CAT5(a,b,c,d,e)a/\*\*/b/\*\*/c/\*\*/d/\*\*/e  
?X: ?H:STRINGIFY:#define STRINGIFY(a)"a"  
?X: ?H:??<:#define SQuoTe(a)"a"  
?X: ?H:??<:#define EQuoTe(a)a"  
?X: ?H:SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)  
?X: ?H:SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/\*\*/c)  
?X: ?H:SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/\*\*/c/\*\*/d)  
?X: ?H:SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/\*\*/c/\*\*/d/\*\*/e)  
?X: ?H:??<:#endif  
?H:??<:#if \$cpp\_stuff == 1  
?H:CAT2:#define CAT2(a,b) a/\*\*/b  
?H:CAT3:#define CAT3(a,b,c) a/\*\*/b/\*\*/c  
?H:CAT4:#define CAT4(a,b,c,d) a/\*\*/b/\*\*/c/\*\*/d  
?H:CAT5:#define CAT5(a,b,c,d,e) a/\*\*/b/\*\*/c/\*\*/d/\*\*/e

```

?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros. See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
!= 42
?H:?%<:#include "Bleth: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
echo "Oh! Smells like ANSI's been here." >&4
echo "We can catify or stringify, separately or together!"
cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
echo "Ah, yes! The good old days!" >&4
echo "However, in the good old days we don't know how to stringify and"

```

```

echo "catify at the same time."
cpp_stuff=1
else
$cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/cpp_stuff.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: perlpath.U,v \$

?RCS: Revision 3.0.1.2 1995/09/25 09:17:04 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.1 1995/01/11 15:33:53 ram

?RCS: patch45: can now use Loc variables since path stripping is deferred

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:32 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this unit is to locate perl good enough to construct a #!

?X:

?MAKE:perlpath: Getfile Oldconfig Loc perl

?MAKE: -pick

add \$@ %<

?Y:TOP

?S:perlpath:

?S: This variable contains the eventual value of the PERLPATH symbol,

```

?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath" /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
if test -f /usr/bin/perl; then
dflt=/usr/bin/perl
else
case "$perl" in
*/*) dflt="$perl";;
*) dflt=/usr/bin/perl;;
esac
fi
;;
*) dflt="$perlpath"
;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
./getfile
perlpath="$ans"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/perlpath.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

?RCS:

```

```

?RCS: You may redistribute only under the terms of the Artistic Licence,

```

```

?RCS: as specified in the README file that comes with the distribution.

```

```

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: that same Artistic Licence; a copy of which may be found at the root

```

```

?RCS: of the source tree for dist 4.0.

```

```

?RCS:

```

```

?RCS: $Log: d_semop.U,v $

```

```

?RCS: Revision 3.0 1993/08/18 12:07:05 ram

```

```

?RCS: Baseline for dist 3.0 netwide release.

```

```

?RCS:

```

```

?MAKE:d_semop: Inlibc

```

?MAKE: -pick add \$@ %<  
?S:d\_semop:  
?S: This variable conditionally defines the HAS\_SEMOP symbol, which  
?S: indicates to the C program that the semop() routine is available.  
?S:.  
?C:HAS\_SEMOP:  
?C: This symbol, if defined, indicates that the semop() routine is  
?C: available to execute semaphore operations.  
?C:.  
?H:#\$d\_semop  
HAS\_SEMOP /\*\*/  
?H:.  
?LINT:set d\_semop  
: see if semop exists  
set semop d\_semop  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_semop.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: defeditor.U,v \$  
?RCS: Revision 3.0.1.1 1995/01/11 15:30:16 ram  
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:05 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:defeditor: Getfile Oldconfig Loc vi  
?MAKE: -pick add \$@ %<  
?S:defeditor:  
?S: This variable contains the eventual value of the DEFEDITOR symbol,  
?S: which contains the name of the default editor.  
?S:.  
?C:DEFEDITOR:  
?C: This

symbol contains the full pathname of the default editor.

```
?C:.  
?H:#define DEFEDITOR "$defeditor" /**/  
?H:.  
: determine default editor  
echo " "  
case "$defeditor" in  
")  
case "$vi" in  
*) dflt="$vi";;  
*) dflt=/usr/ucb/vi;;  
esac  
;;  
*) dflt="$defeditor"  
;;  
esac  
fn=f/  
rp="What is the default editor on your system?"  
./getfile  
defeditor="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/defeditor.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: $Log: d_bcmp.U,v $  
?RCS: Revision 3.0.1.2 1993/10/16 13:47:52 ram  
?RCS: patch12: added magic support for bcmp()  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:00:44 ram  
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:42 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d_bcmp: Inlibc  
?MAKE: -pick add $@ %<
```

?S:d\_bcmp:  
 ?S: This variable conditionally defines the HAS\_BCMP symbol  
 if  
 ?S: the bcmp() routine is available to compare strings.  
 ?S:.  
 ?C:HAS\_BCMP:  
 ?C: This symbol is defined if the bcmp() routine is available to  
 ?C: compare blocks of memory.  
 ?C:.  
 ?H:#\$d\_bcmp HAS\_BCMP /\*\*/  
 ?H:.  
 ?M:bcmp: HAS\_BCMP  
 ?M:#ifndef HAS\_BCMP  
 ?M:#ifndef bcmp  
 ?M:#define bcmp(s,d,l) memcmp((s),(d),(l))  
 ?M:#endif  
 ?M:#endif  
 ?M:.  
 ?LINT:set d\_bcmp  
 : see if bcmp exists  
 set bcmp d\_bcmp  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_bcmp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strerror.U 1 2006-08-24 12:32:52Z rmanfredi \$  
 ?RCS:  
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
 ?RCS:  
 ?RCS: You may redistribute only under the terms of the Artistic Licence,  
 ?RCS: as specified in the README file that comes with the distribution.  
 ?RCS: You may reuse parts of this distribution only within the terms of  
 ?RCS: that same Artistic Licence; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_strerror.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:07:39 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:d\_strerror: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_strerror:  
 ?S: This variable conditionally defines the HAS\_STRTOL symbol, which  
 ?S: indicates to the C program that the strtol() routine is available  
 ?S: to provide better numeric string conversion than atoi() and friends.



?S:.

?C:HAS\_STRTOL (STRTOL):

?C: This symbol, if defined, indicates that  
the strtol routine is available

?C: to provide better numeric string conversion than atoi() and friends.

?C:.

?H:#\$d\_strtol HAS\_STRTOL /\*\*/

?H:.

?LINT:set d\_strtol

: see if strtol exists

set strtol d\_strtol

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strtol.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_strftime.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:36 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strftime:

?S: This variable conditionally defines HAS\_STRFTIME if strftime() is

?S: available to format locale-specific times.

?S:.

?C:HAS\_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to format locale-specific times.

?C:.

?H:#\$d\_strftime HAS\_STRFTIME /\*\*/

?H:.

?LINT:set d\_strftime

: see

if strftime exists

set strftime d\_strftime

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strftime.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cppstdin.U,v \$

?RCS: Revision 3.0.1.4 1994/10/29 16:08:34 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.3 1994/01/24 14:05:38 ram

?RCS: patch16: comment for CPPLAST was missing

?RCS:

?RCS: Revision 3.0.1.2 1993/12/15 08:18:58 ram

?RCS: patch15: new variables cprun and cpplast, guaranteed wrapper-free

?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper

?RCS:

?RCS: Revision 3.0.1.1

1993/08/25 14:00:53 ram

?RCS: patch6: remove wrapper when not actually used

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:38 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:cppstdin cppminus cprun cpplast: contains test \

Myread Oldconfig Loc cpp +cc rm hint osname gccversion

?MAKE: -pick add \$@ %<

?S:cppstdin:

?S: This variable contains the command which will invoke the C

?S: preprocessor on standard input and put the output to stdout.

?S: It is primarily used by other Configure units that ask about

?S: preprocessor symbols.

?S:.

?S:cppminus:

?S: This variable contains the second part of the string which will invoke

?S: the C preprocessor on the standard input and produce to standard

?S: output. This variable will have the value "-" if cppstdin needs

?S: a minus to specify standard input, otherwise the value is "".

?S:.

?S:cpprun:

?S: This variable contains the command which will invoke a C preprocessor

?S: on standard input and put the output to stdout. It is guaranteed

not

?S: to be a wrapper and may be a null string if no preprocessor can be

?S: made directly available. This preprocessor might be different from the

?S: one used by the C compiler. Don't forget to append cpplast after the

?S: preprocessor options.

?S:.

?S:cpplast:

?S: This variable has the same functionality as cppminus, only it applies

?S: to cpprun and not cppstdin.

?S:.

?C:CPPSTDIN:

?C: This symbol contains the first part of the string which will invoke

?C: the C preprocessor on the standard input and produce to standard

?C: output. Typical value of "cc -E" or "/lib/cpp", but it can also

?C: call a wrapper. See CPPRUN.

?C:.

?C:CPPMINUS:

?C: This symbol contains the second part of the string which will invoke

?C: the C preprocessor on the standard input and produce to standard

?C: output. This symbol will have the value "-" if CPPSTDIN needs a minus

?C: to specify standard input, otherwise the value is "".

?C:.

?C:CPPRUN:

?C: This symbol contains the string which will invoke

a C preprocessor on

?C: the standard input and produce to standard output. It needs to end

?C: with CPPLAST, after all other preprocessor flags have been specified.

?C: The main difference with CPPSTDIN is that this program will never be a

?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is

?C: available directly to the user. Note that it may well be different from

?C: the preprocessor used to compile the C program.

?C:.

?C:CPPLAST:

?C: This symbol is intended to be used along with CPPRUN in the same manner

?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".

?C:.

?H:#define CPPSTDIN "\$cppstdin"

?H:#define CPPMINUS "\$cppminus"

?H:#define CPPRUN "\$cpprun"

?H:#define CPPLAST "\$cpplast"

?H:.

?F:cppstdin !testcpp.out !testcpp.c

?T:wrapper x\_cpp x\_minus ok

```

?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
  XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstd; then
if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
  echo 'cat >.$$.c; rm -f .$$.u; ""$cc"" ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk """"$2 ~ /\.h$/ { print
"# 0 \\""$2\\"" } """" .$$.u; rm -f .$$.o .$$.u; ""$cc"" -E ${1+"$@"} .$$.c; rm .$$.c' > cppstd
else
  echo 'cat >.$$.c; ""$cc $cppflags"" -E ${1+"$@"} .$$.c; rm .$$.c' >cppstd
fi
else
  echo "Keeping your $hint cppstd wrapper."
fi
chmod 755 cppstd
wrapper=`pwd`/cppstd
ok='false'
cd UU

```

?X:

?X: We'll run the cpp tests again if we don't have any valid C preprocessor

?X: yet or don't know how to proceed without a wrapper (in which case cprun

?X: is empty and that's really annoying...)

?X:

```

if $test "X$cppstd" != "X" && \
  $cppstd $cppminus <testcpp.c >testcpp.out 2>&1 && \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1

```

then

```

echo "You used
to use $cppstd $cppminus so we'll use that again."

```

```

case "$cprun" in

```

```

  ") echo "But let's see if we can live without a wrapper..." ;;

```

```

  *)

```

```

    if $cprun $cplast <testcpp.c >testcpp.out 2>&1 && \
      $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1

```

then

```

  echo "(And we'll use $cprun $cplast to preprocess directly.)"

```

```

  ok='true'

```

```

else

```

```

    echo "(However, $cpprun $cpplast does not work, let's see...)"
fi
;;
esac
else
case "$cppstdin" in
") ;;
*)
    echo "Good old $cppstdin $cppminus does not seem to be of any help..."
    ;;
esac
fi

if $ok; then
: nothing
elif echo 'Maybe ""$cc" -E" will work...'; \
$cc -E <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "Yup, it does."
x_cpp="$cc $cppflags -E"
x_minus="";
elif echo 'Nope...maybe ""$cc" -E -" will work...'; \
$cc -E - <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "Yup, it does."
x_cpp="$cc $cppflags -E"
x_minus='-';
elif
echo 'Nope...maybe ""$cc" -P" will work...'; \
$cc -P <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "Yipee, that works!"
x_cpp="$cc $cppflags -P"
x_minus="";
elif echo 'Nope...maybe ""$cc" -P -" will work...'; \
$cc -P - <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "At long last!"
x_cpp="$cc $cppflags -P"
x_minus='-';
elif echo 'No such luck, maybe ""$cpp" will work...'; \
$cpp <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "It works!"
x_cpp="$cpp $cppflags"
x_minus="";
elif echo 'Nixed again...maybe ""$cpp" -" will work...'; \
$cpp - <testcpp.c >testcpp.out 2>&1; \

```

```

$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "Hooray, it works! I was beginning to wonder."
x_cpp="$cpp $cppflags"
x_minus='-';
elif echo 'Uh-uh. Time to get fancy. Trying a wrapper...'; \
$wrapper <testcpp.c >testcpp.out 2>&1; \
$contains
'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
x_cpp="$wrapper"
x_minus=""
echo "Eureka!"
else
dflt=""
rp="No dice. I can't find a C preprocessor. Name one:"
./myread
x_cpp="$ans"
x_minus=""
$x_cpp <testcpp.c >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "OK, that will do." >&4
else
echo "Sorry, I can't get that to work. Go find one and rerun Configure." >&4
exit 1
fi
fi

case "$ok" in
false)
cppstdin="$x_cpp"
cppminus="$x_minus"
cpprun="$x_cpp"
cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
set X $x_cpp
shift
case "$1" in
"$cpp")
echo "Perhaps can we force $cc -E using a wrapper..."
if $wrapper <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz'
testcpp.out >/dev/null 2>&1
then
echo "Yup, we can."

```

```

cppstdin="$wrapper"
cppminus=";
else
  echo "Nope, we'll have to live without it..."
fi
;;
esac
case "$cprun" in
"$wrapper")
  cprun="
  cpplast="
  ;;
esac
;;
esac

```

```

case "$cppstdin" in
"$wrapper"|"$cppstdin") ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/cppstdin.U

```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:usequadmath: Setvar cat uselongdouble

?MAKE: -pick add \$@ %<

?S:usequadmath:

?S: This variable conditionally defines the USE\_QUADMATH symbol,

?S: and indicates that the quadmath library \_\_float128 long doubles

?S: should be used when available.

?S:.

?C:USE\_QUADMATH:

?C: This symbol, if defined, indicates that the quadmath library should

?C: be used when available.

?C:.

?H:%<:#ifndef USE\_QUADMATH

?H:%<:#\$usequadmath USE\_QUADMATH /\*\*/

?H:%<:#endif

?H:.

: Check if quadmath is requested

```

case "$usequadmath" in

```

```

"$define"|true|[yY]*) usequadmath="$define" ;;

```

```
*)          usequadmath="$undef" ;;
esac
```

```
: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
$cat <<EOM >&4
```

```
*** You requested the use of
the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
exit 1
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1-rc1/U/perl/usequadmath.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 16:10:26 ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1 1994/05/06 15:10:46 ram
?RCS: patch23: added support for MYMALLOC, mainly for perl5 (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:12 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
malloctype d_mymalloc \
freetype: Myread \
Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
```



i\_malloc i\_stdlib sed libs \_o ptrsize useithreads  
?MAKE: -pick add \$@ %<  
?X: Put near top so that other tests don't erroneously include  
?X: -lmalloc. --AD 22 June 1998  
?Y:TOP  
?S:usemymalloc:  
?S: This variable contains y if the malloc that comes with this package  
?S: is desired over the system's version of malloc. People often include  
?S: special versions of malloc for efficiency, but such versions are often  
?S: less portable. See also malloclsrc and mallocobj.  
?S: If this is 'y', then -lmalloc is removed from \$libs.  
?S:.  
?S:usemallocwrap:  
?S: This variable contains y if we are wrapping malloc to prevent  
?S: integer overflow during size calculations.  
?S:.  
?S:malloclsrc:  
?S: This variable contains the name of the malloc.c that comes with  
?S: the package, if that malloc.c is preferred over the system malloc.  
?S: Otherwise the value is null. This variable is intended for generating  
?S: Makefiles.  
?S:.  
?S:d\_mymalloc:  
?S: This  
variable conditionally defines MYMALLOC in case other parts  
?S: of the source want to take special action if MYMALLOC is used.  
?S: This may include different sorts of profiling or error detection.  
?S:.  
?S:mallocobj:  
?S: This variable contains the name of the malloc.o that this package  
?S: generates, if that malloc.o is preferred over the system malloc.  
?S: Otherwise the value is null. This variable is intended for generating  
?S: Makefiles. See malloclsrc.  
?S:.  
?S:freetype:  
?S: This variable contains the return type of free(). It is usually  
?S: void, but occasionally int.  
?S:.  
?S:malloctype:  
?S: This variable contains the kind of ptr returned by malloc and realloc.  
?S:.  
?C:Free\_t:  
?C: This variable contains the return type of free(). It is usually  
?C: void, but occasionally int.  
?C:.  
?C:Malloc\_t (MALLOC\_PTRTYPE):  
?C: This symbol is the type of pointer returned by malloc and realloc.  
?C:.

```

?H:#define Malloc_t $malloctype /**/
?H:#define Free_t
$freetype /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for malloctx; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
[yY]*|true|$define) dflt='y' ;;
*) dflt='n' ;;
esac
;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
./myread
usemallocwrap="$ans"
case "$ans" in
y*|true)
usemallocwrap="$define" ;;
*)
usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
4) dflt='y' ;;

```

```

*) dflt='n' ;;
esac
if test "$useithreads" = "$define"; then dflt='n'; fi
;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
./myread
useymalloc="$ans"
case "$ans" in
y*|true)
useymalloc='y'
mallosrc='malloc.c'
mallocoobj="malloc$_o"
d_myalloc="$define"
?X: Maybe libs.U should be dependent on mallosrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
case "$libs" in
*-lmalloc*)
: Remove malloc from list of libraries to use
echo "Removing unneeded -lmalloc from library list" >&4
set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'^
shift
libs="$*"
echo "libs = $libs" >&4
;;
esac
;;
*)
useymalloc='n'
mallosrc=""
mallocoobj=""
d_myalloc="$undef"
;;
esac

@end
@if MALLOC_PTRTYPE || Malloc_t || Free_t
: compute the return types of
malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>

```

```

#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
if $cc $cflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
malloctype='void *'
else
malloctype='char *'
fi
;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
if $cc $cflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
freetype='void'
else
freetype='int'
fi
;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/mallosrc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: dlsrc.U,v\$

?RCS:

?RCS: Copyright (c) 1996-1998, Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?RCS: \$Log: dlsrc.U,v \$  
?RCS:  
?X: hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>  
?X:  
?X: To create a shared library, you must compile ALL source files in the  
?X: library with +z (or possibly +Z if the library is whopping huge),  
?X: then link the library with -b. Example:  
?X: cc -c +z module\_a.c  
?X: cc -c +z module\_b.c  
?X: ld -b module\_a.o module\_b.o -o module.sl  
?X:  
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin\_ELF ld\_can\_script: \  
rm\_try Getfile Myread test osname sed d\_dlopen Findhdr Setvar \  
src run cc cclflags ldflags optimize ls gccversion cat rsrc i\_stdlib \  
i\_unistd osvers sysroot  
?MAKE: -pick add \$@ %<  
?Y:BOTTOM  
?S:usedl:  
?S: This variable  
indicates if the system supports dynamic  
?S: loading of some sort. See also dlsrc and dlobj.  
?S:.  
?S:ld:  
?S: This variable indicates the program to be used to link  
?S: libraries for dynamic loading. On some systems, it is 'ld'.  
?S: On ELF systems, it should be \$cc. Mostly, we'll try to respect  
?S: the hint file setting.  
?S:.  
?S:dlsrc:  
?S: This variable contains the name of the dynamic loading file that  
?S: will be used with the package.  
?S:.  
?S:cccdlflags:  
?S: This variable contains any special flags that might need to be  
?S: passed with 'cc -c' to compile modules to be used to create a shared  
?S: library that will be used for dynamic loading. For hpux, this  
?S: should be +z. It is up to the makefile to use it.  
?S:.  
?S:lddlflags:  
?S: This variable contains any special flags that might need to be  
?S: passed to \$ld to create a shared library suitable for dynamic  
?S: loading. It is up to the makefile to use it. For hpux, it  
?S: should be '-b'. For sunos 4.1, it is empty.  
?S:.  
?S:ccdlflags:

?S: This variable contains any special flags that might need to be passed to cc to link with a shared library for dynamic loading.

?S: It is up to the makefile to use it. For sunos 4.1, it should be empty.

?S:.

?S:bin\_ELF:

?S: This variable saves the result from configure if generated binaries are in ELF format. Only set to defined when the test has actually been performed, and the result was positive.

?S:.

?S:ld\_can\_script:

?S: This variable shows if the loader accepts scripts in the form of -Wl,--version-script=ld.script. This is currently only supported for GNU ld on ELF in dynamic loading builds.

?S:.

?C:USE\_DYNAMIC\_LOADING ~ %<:

?C: This symbol, if defined, indicates that dynamic loading of some sort is available.

?C:.

?H:?%<:#\$usedl USE\_DYNAMIC\_LOADING /\*\*/

?H:.

?W:%<:dlopen

?T:dldir thisflag tdir

?F:!a.out

: determine which dynamic loading, if any, to compile in

```
echo " "
dldir="ext/DynaLoader"
case "$usedl" in
  $define|y|true)
    dflt='y'
    usedl="$define"
    ;;
  $undef|n|false)
    dflt='n'
    usedl="$undef"
    ;;
  *)
    dflt='n'
case "$d_dlopen" in
  $define) dflt='y' ;;
esac
: Does a dl_XXX.XS file exist for this operating system
$test -f $src/$dldir/dl_${osname}.xs && dflt='y'
;;
esac
rp="Do you wish to use dynamic loading?"
./myread
```

```

usedl="$ans"
bin_ELF="$undef"
case "$ans" in
  y*) usedl="$define"
case "$dlsrc" in
  ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
    dflt="$dldir/dl_${osname}.xs"
  elif $test "$d_dlopen" = "$define" ; then
    dflt="$dldir/dl_dlopen.xs"
  else
    dflt="
  fi
  ;;
  *) dflt="$dldir/$dlsrc"
  ;;
esac
echo "The following dynamic loading files are available:"
: Can not go over to $dldir because getfile has path hard-coded in.
tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
rp="Source file to use for dynamic loading"
fn="fne"
gfpth="$src"
./getfile
usedl="$define"
: emulate basename
dlsrc=`echo $ans | $sed -e 's%.*^\([^\]*\)%)%1%'`

$cat
<< EOM

```

Some systems may require passing special flags to \$cc -c to compile modules that will be used to create a shared library. To use no flags, say "none".

EOM

```

case "$cccdlflags" in
  ") case "$gccversion" in
  ") case "$osname" in
    hpux) dflt='+z' ;;
    irix*) dflt='-KPIC' ;;
    svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
    sunos) dflt='-pic' ;;
    *) dflt='none' ;;
  esac
  ;;
  *) case "$osname" in
    darwin) dflt='none' ;;
    *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;

```

```

*) dflt='-fpic' ;;
  esac ;;
esac ;;
  ') dflt='none' ;;
  *) dflt="$cccdlflags" ;;
esac

case "$dflt" in
  none) dflt=" ;;
esac

# If -Dsysroot was specified, now's the time to add it
# to cccdflags
if test "X$sysroot" != X; then
  case "$gccversion" in
  ") ;;
  *) case "$dflt" in
    *sysroot*) ;;
    'undef'|*)
      dflt="$dflt --sysroot=$sysroot" ;;
    esac
    ;;
  esac
fi

case "$dflt" in
  ") dflt='none';;
esac

rp="Any
special flags to pass to $cc -c to compile shared library modules?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
  none) cccdflags=' ' ;;
  *) cccdflags="$ans" ;;
esac

cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
$cat >try.c <<EOM
/* Test for whether ELF binaries are produced */

```



```

#include <fcntl.h>
#include <stdlib.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
    char b[4];
    int i = open("a.out",O_RDONLY);
    if(i == -1)
        exit(1); /* fail */
    if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
        exit(0); /* succeed (yes, it is ELF) */
    else
        exit(1); /* fail */
}
EOM
if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
    bin_ELF="$define"
fi
$rm_try

case "$ld" in

    *) if $test $bin_ELF = "$define"; then
        cat <<EOM
You appear to have ELF support. I'll use $cc to build dynamic libraries.
EOM
        dflt="$cc"
    else
        echo "I'll use ld to build dynamic libraries."
        dflt='ld'
    fi
;;
*) dflt="$ld"
;;
esac

rp="What command should be used to create dynamic libraries?"
. ./myread
ld="$ans"

cat << EOM

```

Some systems may require passing special flags to \$ld to create a library that can be dynamically loaded. If your ld flags include

-L/other/path options to locate libraries outside your loader's normal search path, you may need to specify those -L options here as well. To use no flags, say "none".

EOM

```
case "$lddflags" in
  *) case "$osname" in
      haiku) dflt='-shared' ;;
      hpux) dflt='-b';
      case "$gccversion" in
        *) dflt="$dflt +vnocompatwarnings" ;;
      esac
    ;;
  *linux*|irix*|gnu*) dflt="-shared $optimize" ;;
  solaris) # See [perl #66604].
    # On Solaris 11, gcc -m64
on amd64
  # appears not to understand -G. gcc versions at
  # least as old as 3.4.3 support -shared, so just
  # use that with Solaris 11 and later, but keep
  # the old behavior for older Solaris versions.
  case "$gccversion" in
    *) dflt='-G' ;;
  *) case "$osvers" in
      2.?|2.10) dflt='-G' ;;
      *) dflt='-shared' ;;
    esac
    ;;
  esac
  ;;
  sunos) dflt='-assert nodefinitions' ;;
  svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
  *) dflt='none' ;;
esac
;;
*) dflt="$lddflags" ;;
esac
```

: Only do this for gcc, since, for example, qcc has no concept  
: of --sysroot.

```
if $test "X$sysroot" != X; then
  case "$gccversion" in
    *) ;;
    *) dflt="$dflt --sysroot=$sysroot" ;;
  esac
fi
```

: Try to guess additional flags to pick up local libraries.

```

: Be careful not to append to a plain 'none'
case "$dflt" in
  none) dflt=" ;;
esac
for thisflag in $ldflags; do
  case "$thisflag" in
-L*|-R*|-Wl,-R*)

  case " $dflt " in
*" $thisflag "*) ;;
*) dflt="$dflt $thisflag" ;;
  esac
  ;;
  esac
done

case "$dflt" in
  '| ' ) dflt='none' ;;
esac

case "$ldflags" in
*-fstack-protector-strong*)
case "$dflt" in
*-fstack-protector-strong*) ;; # Don't add it again
*) dflt="$dflt -fstack-protector-strong" ;;
esac
;;
*-fstack-protector*)
case "$dflt" in
*-fstack-protector*) ;; # Don't add it again
*) dflt="$dflt -fstack-protector" ;;
esac
;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
  none) lddflags=' ' ;;
  *) lddflags="$ans" ;;
esac

cat <<EOM

```

Some systems may require passing special flags to \$cc to indicate that the resulting executable will use dynamic linking. To use no flags, say "none".

```

EOM
case "$ccdlflags" in
  *) case "$osname" in
      *linux*|hpux|gnu*)
dflt='-Wl,-E' ;;
      sunos)      dflt='none' ;;
      *)          dflt='none' ;;
    esac ;;
  *) dflt="none" ;;
  *) dflt="$ccdlflags" ;;
esac
rp="Any special flags to pass to $cc to use dynamic linking?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
  none) ccdlflags=' ' ;;
  *)   ccdlflags="$ans" ;;
esac
;;
?X: End of usedl=y section

*) usedl="$undef"
ld='ld'
dlsrc='dl_none.xs'
lddflags=""
ccdlflags=""
;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
  $define$define)
# Abuse try.h and a.out names for neat cleanup
$cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
$cat >try.h <<EOM
LIBTEST_42 {
global:
foo;
local: *;
};
EOM
if $cc $cccdlflags $ccdlflags $ccflags \
    $ldflags $lddflags -o a.out try.c \
    -Wl,--version-script=try.h >/dev/null 2>&1 \

```

```

&& $test -s a.out ; then
  echo "ld supports scripting" >&4
  ld_can_script="$define"
else

  echo "ld does not support scripting" >&4
fi
$rm_try
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/dlsrc.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fsync:

?S: This variable conditionally defines the HAS\_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS\_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d\_fsync HAS\_FSYNC /\*\*/

?H:.

?LINT:set d\_fsync

: see if fsync exists

set fsync d\_fsync

eval \$inlibc

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fsync.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp \$

?RCS:

```

?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2 1995/07/25 13:52:56 ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:07:34 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries. Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
*) case "$d_cplusplus" in

```

```
"$define") ccflags="$ccflags -shared" ;;  
esac  
;;  
esac  
set dlopen d_dlopen  
eval $inlibc  
runnm="$xxx_runnm"  
ccflags="$xxx_ccflags"
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_dlopen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \  
usecrosscompile hostperl hostgenerate hostosname targetenv: \  
src test rm echo sed mkdir cp chmod make touch

?MAKE: -pick add \$@ %<

?MAKE: -pick add \$@ %<

?MAKE: -pick add \$@ %<

?Y:TOP

?S:usecrosscompile:

?S: This variable conditionally defines the USE\_CROSS\_COMPILE symbol,

?S: and indicates that Perl has been cross-compiled.

?S:.

?S:run:

?S: This variable contains the command used by Configure

?S: to copy and execute a cross-compiled executable in the

?S: target host. Useful and available only during Perl build.

?S: Empty string " if not cross-compiling.

?S:.

?S:from:

?S: This variable contains the command used by Configure

?S: to copy files from the target host. Useful

and available

?S: only during Perl build.

?S: The string ':' if not cross-compiling.

?S:.

?S:to:

?S: This variable contains the command used by Configure

?S: to copy to from the target host. Useful and available

?S: only during Perl build.

?S: The string ':' if not cross-compiling.

?S:.

?S:targetarch:

?S: If cross-compiling, this variable contains the target architecture.

?S: If not, this will be empty.

?S:.

?S:targetdir:

?S: This variable contains a path that will be created on the target

?S: host using targetmkdir, and then used to copy the cross-compiled

?S: executables to. Defaults to '/tmp' if not set.

?S:.

?S:targetmkdir:

?S: This variable contains the command used by Configure to create a

?S: new directory on the target host.

?S:.

?S:targethost:

?S: This variable contains the name of a separate host machine that

?S: can be used to run compiled test programs and perl tests on.

?S: Set to empty string if not in use.

?S:.

?S:targetport:

?S: This variable contains the number

of a network port to be used to

?S: connect to the host in targethost, if unset defaults to 22 for ssh.

?S:.

?S:hostperl:

?S: This variable contains the path to a miniperl binary that can be

?S: run on the host OS when cross-compiling. Useful and available only

?S: during Perl build.

?S: Empty string " if not cross-compiling.

?S:.

?S:hostgenerate:

?S: This variable contains the path to a generate\_uudmap binary that

?S: can be run on the host OS when cross-compiling. Useful and

?S: available only during Perl build.

?S: Empty string " if not cross-compiling.

?S:.

?S:hostosname:

?S: This variable contains the original value of '\$^O' for hostperl

?S: when cross-compiling. This is useful to pick the proper tools

?S: when running build code in the host.

?S: Empty string " if not cross-compiling.

?S:.

?S:targetenv:

?S: If cross-compiling, this variable can be used to modify the

?S: environment on the target system.

?S: However, how and where it's used, and even if it's used at all, is

?S: entirely



dependent on both the transport mechanism (targetrun) and  
?S: what the target system is. Unless the relevant documentation says  
?S: otherwise, it is generally not useful.  
?S:.  
?C:USE\_CROSS\_COMPILE:  
?C: This symbol, if defined, indicates that Perl is being cross-compiled.  
?C:.  
?C:PERL\_TARGETARCH:  
?C: This symbol, if defined, indicates the target architecture  
?C: Perl has been cross-compiled to. Undefined if not a cross-compile.  
?C:.  
?H:?%<:#ifndef USE\_CROSS\_COMPILE  
?H:?%<:#\$usecrosscompile USE\_CROSS\_COMPILE /\*\*/  
?H:?%<:#define PERL\_TARGETARCH "\$targetarch" /\*\*/  
?H:?%<:#endif  
?H:.  
?D:targetenv="  
?D:targethost="  
?D:targetmkdir="  
?T:croak pwd exe f q cwd file xxx env  
?LINT:extern usecrosscompile  
?LINT:extern cc  
?LINT:extern usrinc  
?LINT:change ar  
?LINT:change nm  
?LINT:change ranlib  
?LINT:change src  
?LINT:extern targetenv  
?LINT:extern targetport  
?LINT:extern targetdir  
?LINT:extern targetuser  
?LINT:change targetuser  
?LINT:extern targetrun  
?LINT:extern targetfrom  
?LINT:extern  
targetto  
?LINT:change targetrun  
?LINT:change targetfrom  
?LINT:change targetto  
?LINT:extern incpth  
?LINT:extern libpth  
?LINT:extern locincpth  
?LINT:extern loclibpth  
?LINT:change locincpth  
?LINT:change loclibpth  
?LINT:extern hostperl  
?LINT:extern hostgenerate  
?LINT:extern before\_host

```

?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
    targethost=""
fi
if $test "X$targetenv" = "X"; then
    targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
    $echo "Cross-compiling..."
    croak=""
    case "$cc" in
*_gcc*|*_g++*) # A cross-compiling gcc, probably.
        # arm-linux-androideabi-gcc -> arm-linux-androideabi
        # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
        targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$/^`
        ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/^`
        # leave out ld,
        choosing it is more complex
        nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/^`
        ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/^`
        # We are in a weird spot. Just before us, some values
        # were 'saved', to be restored after the hints are
        # run. This means that the changes we made to ar,
        # nm and ranlib will get reverted.
        # To avoid that, we hijack the saving mechanism and
        # have it save our new values.
        for file in ar nm ranlib; do
            eval xxx=\$$file
            eval $file=$xxx$_exe
            eval _$file=$xxx
        done
        ;;
    esac
    case "$targetarch" in
    ") echo "Targetarch not defined." >&4; croak=y ;;
    *) echo "Using targetarch $targetarch." >&4 ;;
    esac
    case "$targethost" in
    ") echo "Targethost not defined." >&4; croak=n ;;
    *) echo "Using targethost $targethost." >&4
    esac
    locincpth=' '

```

```

loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac

: compile a host miniperl and generate_uudmap, unless we got passed them
if
$test "X$hostperl" = X; then
    echo "Building host miniperl and generate_uudmap binaries" >&4
    before_host=`pwd`
    cd ..
    cd $src
    src=`pwd`
    rm -rf $src/host
    mkdir $src/host
    cd $src/host
    $src/Configure -des -Dusedevel -Dmksymlinks
    $make miniperl
    case "$hostgenerate" in
    ") $make generate_uudmap
        hostgenerate=$src/host/generate_uudmap
        ;;
    "$undef") hostgenerate="
        ;;
    esac
    hostperl=$src/host/miniperl
    cd $before_host
fi
hostosname=`$hostperl -le 'print $^O`
;;
*)
    usecrosscompile="$undef"
    ;;
esac

: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
    ") echo "Checking for cross-compile" >&4
    case "$usecrosscompile$multiarch" in
        *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
compiling" >&4
            if [ -f Makefile ]; then
                echo
                " "
                echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
            else
                echo "Configure done."
            fi
        exit 0
    esac

```

```

;;
*) echo "No targethost for running compiler tests against defined, running locally" >&4
  run="
  to=:
  from=:
  ;;
esac
;;
*) echo "Using targethost $targethost." >&4
case "$src" in
/*) run=$src/Cross/run
  targetmkdir=$src/Cross/mkdir
  to=$src/Cross/to
  from=$src/Cross/from
  ;;
*) pwd=`$stest -f ../Configure & cd ..; pwd`
  run=$pwd/Cross/run
  targetmkdir=$pwd/Cross/mkdir
  to=$pwd/Cross/to
  from=$pwd/Cross/from
  ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
") targetdir=/tmp
  echo "Guessing targetdir $targetdir."
>&4
  ;;
esac
case "$targetuser" in
") targetuser=root
  echo "Guessing targetuser $targetuser." >&4
  ;;
esac
case "$targetport" in
") targetport=22
  echo "Guessing targetport $targetport." >&4

```

```

;;
esac
case "$targetfrom" in
scp) q=-q ;;
*) q="" ;;
esac
case "$targetrun" in
ssh|rsh)
    cat >$run <<EOF
#!/bin/sh
env=""
case "$1" in
-cwd)
    shift
    cwd=$1
    shift
    ;;
esac
case "$1" in
-env)
    shift
    env=$1
    shift
    ;;
esac
case "$1" in
-cwd)
    shift
    cwd=$1
    shift
    ;;
esac
case "$1" in
*)
    shift
    exe=$1
    shift
    $to $exe
targetrun -p $targetport -l $targetuser $targethost "cd $scwd && $env $exe @$@"
EOF
;;
adb)
    $touch $run
    ;;
*)
    echo "Unknown targetrun '$targetrun'" >&4
    exit 1
    ;;
esac
case "$targetmkdir" in
*/Cross/mkdir)
    cat >$targetmkdir <<EOF
#!/bin/sh
targetrun -p $targetport -l $targetuser $targethost "mkdir -p @$@"
EOF
    $chmod a+rx $targetmkdir

```

```

;;
*) echo "Unknown targetmkdir '$targetmkdir'" >&4
  exit 1
;;
esac
case
"$targetto" in
scp|rcp)
  cat >$to <<EOF
#!/bin/sh
for f in @$
do
case "$f" in
/*)
  $targetmkdir `dirname $f`
  $targetto -P $targetport -r $q $f $targetuser@$targethost:$f 2>/dev/null || exit 1
;;
*)
  $targetmkdir $targetdir/`dirname $f`
  $targetto -P $targetport -r $q $f $targetuser@$targethost:$targetdir/$f 2>/dev/null || exit 1
;;
esac
done
exit 0
EOF
;;
cp) cat >$to <<EOF
#!/bin/sh
for f in @$
do
case "$f" in
/*)
  $mkdir -p $targetdir/`dirname $f`
  $cp $f $targetdir/$f || exit 1
;;
*)
  $targetmkdir $targetdir/`dirname $f`
  $cp $f $targetdir/$f || exit 1
;;
esac
done
exit 0
EOF
;;
*) echo "Unknown targetto '$targetto'" >&4
  exit 1
;;
esac

```

```

case "$targetfrom" in
scp|rcp)
    cat >$from <<EOF
#!/bin/sh
for f in \${@}
do
    $rm -f \${f}
    $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\${f} . || exit 1
done
exit 0
EOF
;;
cp) cat >$from <<EOF
#!/bin/sh
for
f in \${@}
do
    $rm -f \${f}
    cp $targetdir/\${f} . || exit 1
done
exit 0
EOF
;;
*) echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
esac
if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
else
    $chmod a+rx $run
fi
if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
else
    $chmod a+rx $to
fi
if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
else
    $chmod a+rx $from
fi
if $test ! -f $run -o ! -f $to -o ! -f $from; then
    exit 1
fi
cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'

```

for remote file transfer.

EOF

::

\*) run="

to=:

from=:

usecrosscompile="\$undef"

targetarch="

::

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/Cross.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: floatsize.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:17:09 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:floatsize: cat rm Myread Compile run

?MAKE: -pick add \$@ %<

?S:floatsize:

?S: This variable contains the value of the FLOATSIZE symbol, which

?S: indicates to the C program how many bytes there are in a float.

?S:.

?C:FLOATSIZE:

?C: This

symbol contains the size of a float, so that the C preprocessor

?C: can make decisions based on it.

?C:.

?H:#define FLOATSIZE \$floatsize /\*\*/

?H:.

?F:!try

: check for length of float



```

echo " "
case "$floatsize" in
")
echo "Checking to see how big your floating point numbers are..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
printf("%d\n", (int)sizeof(float));
exit(0);
}
EOCP
set try
if eval $compile_ok; then
floatsize=`$run ./try`
else
dflt='4'
echo "(I can't seem to compile the test program. Guessing...)"
rp="What is the size of a floating point number (in bytes)?"
./myread
floatsize="$ans"
fi
;;
esac
$rm -f try.c try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/floatsize.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sbrksmart.U,v \$

?RCS: Revision 3.0.1.2 1995/01/11 15:35:41 ram

?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()

?RCS: patch45: forgot a cast when using return value from sbrk()

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:16:45 ram

?RCS: patch16: created

```

?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
echo "Let's see if your sbrk() is smart enough to release core..." >&4
$cat > sbrk.c <<EOC
#define INC 256 /* Small enough to be less than a page size */

int main()
{
char *obrk = (char *) sbrk(0);
char *nbrk;

nbrk = (char *) sbrk(INC);
if (nbrk == (char *) -1)
exit(1); /* Not enough memory */
if (nbrk != obrk)
exit(2); /* Unreliable sbrk() */
nbrk = (char *) sbrk(-INC);
if (nbrk == (char *) -1)
exit(3); /* May have understood negative arg as huge positive */
if (obrk != (char *) sbrk(0))
exit(4); /* Not smart, definitely */

exit(0); /* Ok */
}
EOC
sbrksmart="$undef"
dumb='--

```

```

assuming dumb sbrk().'
if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
./sbrk >/dev/null 2>&1
case $? in
0) sbrksmart="$define"
echo "Yes, it can be used with negative values." ;;
1) echo "Sorry, not enough memory $dumb" ;;
2) echo "No it's not, and besides it seems to be buggy..." ;;
3) echo "No, it fails with negative values." ;;
4) echo "Nope, your sbrk() is too dumb." ;;
*) echo "Err... Unexpected result $dumb" ;;
esac
else
echo "(Could not compile test program $dumb)"
fi
;;
*)
echo "Since you don't have sbrk(), let's forget about the smart test!"
sbrksmart="$undef"
;;
esac
$rm -f sbrk sbrk.* core

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sbrksmart.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: vaprotol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaprotol.U,v $
?RCS: Revision 3.0.1.1 1994/01/24 14:17:16 ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:59 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaprotol: prototype i_stdarg Setvar

```

```

?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
    declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C: int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:?%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
    echo "It appears we'll
    be able to prototype varargs functions." >&4
    val="$define"
    ;;
*)
    echo "Too bad... We won't be using prototyped varargs functions..." >&4
    val="$undef"
    ;;
esac
set vaproto
eval $setvar

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/vaproto.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_getpent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_getpent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getpent:

?S: This variable conditionally defines HAS\_GETPROTOENT if getprotoent() is

?S: available to look up protocols in some data base or another.

?S:.

?C:HAS\_GETPROTOENT:

?C: This symbol, if defined, indicates that the getprotoent() routine is

?C: available to look up protocols in some data base

or another.

?C:.

?H:#\$d\_getpent HAS\_GETPROTOENT /\*\*/

?H:.

?LINT:set d\_getpent

: see if getprotoent exists

set getprotoent d\_getpent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getpent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_shadow.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_prot: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_prot:  
?S: This variable conditionally defines the I\_PROT symbol, and indicates  
?S: whether a C program should include <prot.h>.  
?S:.  
?C:I\_PROT:  
?C: This symbol, if defined, indicates that <prot.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_prot I\_PROT /\*\*/  
?H:.  
?LINT:set i\_prot  
: see if this is a prot.h system  
set prot.h i\_prot  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_prot.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:longdblifbytes longdblifnanbytes doubleifbytes doubleifnanbytes: Inlibc \  
cat Compile run rm\_try Setvar echo d\_longdbl \  
doublekind doublesize longdblkind longdblsize  
?MAKE: -pick add \$@ %<  
?S:longdblifbytes:  
?S: This variable contains comma-separated list of hexadecimal bytes  
?S: for the long double precision infinity.  
?S:.  
?S:longdblifnanbytes:  
?S: This variable contains comma-separated list of hexadecimal bytes  
?S: for the long double precision not-a-number.  
?S:.  
?S:doubleifbytes:  
?S: This variable contains comma-separated list of hexadecimal bytes  
?S: for the double precision infinity.  
?S:.  
?S:doubleifnanbytes:  
?S: This variable contains comma-separated list of hexadecimal bytes  
?S: for

the double precision not-a-number.

?S:.

?C:DOUBLEINFBYTES:

?C: This symbol, if defined, is a comma-separated list of

?C: hexadecimal bytes for the double precision infinity.

?C:.

?C:DOUBLENANBYTES:

?C: This symbol, if defined, is a comma-separated list of

?C: hexadecimal bytes (0xHH) for the double precision not-a-number.

?C:.

?C:LONGDBLINFBYTES:

?C: This symbol, if defined, is a comma-separated list of

?C: hexadecimal bytes for the long double precision infinity.

?C:.

?C:LONGDBLNANBYTES:

?C: This symbol, if defined, is a comma-separated list of

?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.

?C:.

?H:#define DOUBLEINFBYTES \$doubleinfbytes /\*\*/

?H:#define DOUBLENANBYTES \$doublenanbytes /\*\*/

?H:#define LONGDBLINFBYTES \$longdblinfbytes /\*\*/

?H:#define LONGDBLNANBYTES \$longdbl nanbytes /\*\*/

?H:.

?F:!try

: Check what kind of inf/nan your system has

\$echo "Checking the kind of infinities and nans you have..." >&4

\$echo "(The following tests may crash. That's

okay.)" >&4

\$cat >try.c <<EOP

#define DOUBLESIZE \$double size

#\$d\_longdbl HAS\_LONG\_DOUBLE

#ifdef HAS\_LONG\_DOUBLE

#define LONG\_DOUBLESIZE \$longdbl size

#define LONG\_DOUBLEKIND \$longdbl kind

#endif

#include <math.h>

#include <string.h>

#include <stdio.h>

/\* Note that whether the sign bit is on or off

\* for NaN depends on the CPU/FPU, and possibly

\* can be affected by the build toolchain.

\*

\* For example for older MIPS and HP-PA 2.0 the quiet NaN is:

\* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff

\* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00

\* (respectively) as opposed to the more usual

\* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00

\*

\* Pre-IEEE-754 floating point format do not even have inf/nan support  
 \* at all. They might have a "max" value (DBL\_MAX), which may be deadly  
 \* to even mention, causing immediate SIGFPE or equivalent: this is  
 \* the case with VAX floating point, for example.

```

*/
static void bytes(void *v, unsigned int n) {
    unsigned char *p = (unsigned
    char *)v;
    int i;
    for (i = 0; i < n; i++) {
        printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
    }
}

int main(int argc, char *argv[]) {
    /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
    * because some compilers are 'smart' and not only warn but refuse to
    * compile such 'illegal' values. */
    double dinf = exp(1e9);
    double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
    long double ldinf = (long double)exp(1e9);
    long double ldnan = (long double)sqrt(-1.0);
    # if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
    /* the 80-bit long doubles might have garbage in their excess bytes */
    memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
    memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
#endif
    if (argc == 2) {
        switch (argv[1][0]) {
            case '1': bytes(&dinf, sizeof(dinf)); break;
            case '2': bytes(&dnan, sizeof(dnan)); break;
            case '3': bytes(&ldinf, sizeof(ldinf)); break;
            case '4': bytes(&ldnan, sizeof(ldnan)); break;
        }
    }
    return 0;
}
EOP
set try
if eval $compile; then
    doubleinfbytes=`$run ./try 1`
    doublenanbytes=`$run ./try 2`
    case "$d_longdbl" in
    $define)
        longdblinfbytes=`$run ./try 3`
        longdblnanbytes=`$run ./try 4`
    ;;

```



```

esac
else
# Defaults in case the above test program failed.
case "$doublekind" in
1) # IEEE 754 32-bit LE
doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
;;
2) # IEEE 754 32-bit BE
doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
;;
3) # IEEE 754 64-bit LE
doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
;;
4) # IEEE 754 64-bit BE
doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
;;
5) # IEEE 754 128-bit LE
doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
;;
6) # IEEE 754 128-bit BE
doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
;;
7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
;;
8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
;;
9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
doubleinfbytes=$undef
doublenanbytes=$undef
;;
*) # No idea.
doubleinfbytes=$undef
doublenanbytes=$undef
;;

```

```

esac
case "$longdblkind" in
1) # IEEE 754 128-bit LE
    longdblifbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
    longdblifnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
    ;;
2) # IEEE 754 128-bit BE
    longdblifbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblifnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
    case "$longdblsize" in
12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
        longdblifbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00'
        longdblifnanbytes='0x00,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
        ;;
16) # x86_64
        longdblifbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblifnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
*) # No idea.
        longdblifbytes=$undef
        longdblifnanbytes=$undef
        ;;
    esac
    ;;
4) # IEEE 754 80-bit BE, 12 or 16 bytes
    case "$longdblsize" in
12) # 32-bit system
        longdblifbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        longdblifnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
16) # 64-bit system
        longdblifbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblifnanbytes='0x7f,
0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
*) # No idea.
        longdblifbytes=$undef
        longdblifnanbytes=$undef

```

```

;;
esac
;;
5) # 128-bit LE-LE "double double"
    longdblifbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    longdblifnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
6) # 128-bit BE-BE "double double"
    longdblifbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblifnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
7) # 128-bit LE-BE "double double"
    longdblifbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblifnanbytes='0x00, 0x00,
0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    ;;
8) # 128-bit BE-LE "double double"
    longdblifbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblifnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
    longdblifbytes=$undef
    longdblifnanbytes=$undef
    ;;
*) # No idea.
    longdblifbytes=$undef
    longdblifnanbytes=$undef
    ;;
esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleifbytes" in
") doubleifbytes=$undef ;;
esac
case "$doubleifnanbytes" in
") doubleifnanbytes=$undef ;;
esac
case "$longdblifbytes" in
") longdblifbytes=$undef ;;
esac
case "$longdblifnanbytes" in

```

```
) longdblmanbytes=$undef ;;
```

```
esac
```

```
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/infnan.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_readv: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_readv:
```

```
?S: This variable conditionally defines the HAS_READV symbol, which
```

```
?S: indicates to the C program that the readv() routine is available.
```

```
?S:.
```

```
?C:HAS_READV:
```

```
?C: This symbol, if defined, indicates that the readv routine is
```

```
?C: available to do gather reads. You will also need <sys/uio.h>
```

```
?C: and there I_SYSUIO.
```

```
?C:.
```

```
?H:#$d_readv HAS_READV /**/
```

```
?H:.
```

```
?LINT:set d_readv
```

```
: see if readv exists
```

```
set readv d_readv
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_readv.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

?RCS:  
?MAKE:d\_sigprocmask: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_sigprocmask:  
?S: This variable conditionally defines HAS\_SIGPROCMAK  
?S: if sigprocmask() is available to examine or change the signal mask  
?S: of the calling process.  
?S:.  
?C:HAS\_SIGPROCMAK:  
?C: This symbol, if defined, indicates that the sigprocmask  
?C: system call is available to examine or change the signal mask  
?C: of the calling process.  
?C:.  
?H:#\$d\_sigprocmask HAS\_SIGPROCMAK /\*\*/  
?H:.  
?LINT:set d\_sigprocmask  
: see if sigprocmask exists  
set sigprocmask d\_sigprocmask  
eval  
\$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_sigprocmask.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_shmget.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_shmget.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:20 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_shmget: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_shmget:  
?S: This variable conditionally defines the HAS\_SHMGET symbol, which  
?S: indicates to the C program that the shmget() routine is available.  
?S:.  
?C:HAS\_SHMGET:  
?C: This symbol, if defined, indicates that the shmget() routine is

?C: available to request a shared memory segment from  
the kernel.

?C:.

?H:#\$d\_shmget HAS\_SHMGET /\*\*/

?H:.

?LINT:set d\_shmget

: see if shmget exists

set shmget d\_shmget

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_shmget.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Magic\_h.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Magic\_h.U,v \$

?RCS: Revision 3.0.1.2 1993/11/10 17:32:58 ram

?RCS: patch14: forgot to mention Id in the dependencies

?RCS:

?RCS: Revision 3.0.1.1 1993/10/16 13:46:59 ram

?RCS: patch12: created for ?M: lines support (magic symbols)

?RCS:

?X:

?X: This file ends up producing the confmagic.h include, which is used to

?X: automatically remap some C symbols via cpp redefinitions.

?X:

?X: The file ./Magic\_h below contains all the ?M: lines extracted out  
of all

?X: the units. Metaconfig itself adds the final #endif statement.

?X: Note that this code isn't included into Configure, but must be shipped with.

?X:

?MAKE:Magic\_h: Id Config\_h

?MAKE: -pick cm\_h\_weed \$@ %<

?MAKE: -pick cm\_h\_weed \$@ ./Magic\_h

?LINT:nocomment

/\*

\* This file was produced by running metaconfig and is intended to be included

\* after config.h and after all the other needed includes have been dealt with.

```
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
* $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/
```

```
#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Magic_h.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:11 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
```

```
/*
```

```
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
* should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Obsol_h.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_setprotoent_r_proto:$usethreads" in
":define") d_setprotoent_r_proto=define
set d_setprotoent_r_proto setprotoent_r $hdrs
```



```

eval $hasproto ;;
*) ;;
esac
case "$d_setprotoent_r_proto" in
define)
case "$setprotoent_r_proto" in
"|0) try='int setprotoent_r(int, struct protoent_data*);'
./prochck "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
esac
case "$setprotoent_r_proto"
in
"|0) try='void setprotoent_r(int, struct protoent_data*);'
./prochck "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
esac
case "$setprotoent_r_proto" in
"|0) d_setprotoent_r=undef
setprotoent_r_proto=0
echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$setprotoent_r_proto" in
REENTRANT_PROTO*) ;;
*) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
esac
d_setprotoent_r=undef
setprotoent_r_proto=0
;;
esac
;;
*) setprotoent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_setprotoent\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Options.U,v \$  
?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram  
?RCS: patch61: optdef.sh now starts with a "startsh"  
?RCS: patch61: moved some code from Head.U  
?RCS:  
?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram  
?RCS: patch59: protected option parsing code against 'echo -\*' option failure  
?RCS:  
?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram  
?RCS: patch54: added -K option for experts  
?RCS:  
?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram  
?RCS: patch49: this unit now exports file optdef.sh,  
not a variable  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram  
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings  
?RCS: patch45: file optdef.sh is no longer removed after sourcing  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram  
?RCS: patch36: ensure option definition file is removed before appending  
?RCS: patch36: protect variable definitions with spaces in them  
?RCS:  
?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram  
?RCS: patch30: now uses new me symbol to tag error messages  
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:14 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: Command line parsing. It is really important that the variables used here  
?X: be not listed in the MAKE line, or they will be saved in config.sh and  
?X: loading this file to fetch default answers would clobber the values set  
?X: herein.  
?X:  
?MAKE:Options: startsh  
?MAKE: -pick wipe \$@ %<  
?V:reuseval  
alldone error realsilent silent extractsh fastread \  
override knowitall: config\_sh  
?T:arg argn symbol config\_arg0 config\_args config\_argc xxx yyy zzz uuu  
?T:args\_exp args\_sep arg\_exp  
?F:!Configure

```

?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U. I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them. You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
<<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='*'
config_argc=$#
EOSH
argn=1
args_exp=""
args_sep=""
for arg in "$@"; do
  cat >>cmdline.opt <<EOSH
  config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by """"
cat <<EOC | sed -e "s/"/"""/g" > cmdl.opt
$arg
EOC
arg_exp=`cat cmdl.opt`
args_exp="$args_exp$args_sep'$arg_exp'"
argn=`expr $argn + 1`
args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
  optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

  len = length(optstr);
  for (i = 1; i <= len; i++) {
    c = substr(optstr, i, 1);

```

?X: some older awk's do not have the C ?: construct

```
if (i < len) a = substr(optstr, i + 1, 1); else a = "";
if (a == ":") {
    arg[c] = 1;
    i++;
}
opt[c] = 1;
}
}
{
    expect = 0;
    str = $0;
    if (substr(str,
1, 1) != "-") {
        printf("%s\n", str);
        next;
    }
    len = length($0);
    for (i = 2; i <= len; i++) {
        c = substr(str, i, 1);
        if (!opt[c]) {
            printf("-%s\n", substr(str, i));
            next;
        }
        printf("-%s\n", c);
        if (arg[c]) {
            if (i < len)
                printf("%s\n", substr(str, i + 1));
            else
                expect = 1;
            next;
        }
    }
}
END {
    if (expect)
        print "?";
}
EOF
```

: process the command line options

?X: Use "\$@" to keep arguments with spaces in them from being split apart.

?X: For the same reason, awk will output quoted arguments and the final eval

?X: removes them and sets a proper \$\* array. An 'X' is prepended to each

?X: argument before being fed to echo to guard against 'echo -x', where -x

?X: would be understood as an echo option! It is removed before feeding awk.

set X `for arg in "\$@"; do echo "X\$arg"; done |

sed -e s/X// | awk -f options.awk`

```
eval "set $*"
shift
rm -f options.awk
```

```
: set up default values
fastread=""
reuseval=false
config_sh=""
alldone=""
error=""
silent=""
extractsh=""
override=""
knowitall=""
rm
-f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS
```

?X:

?X: Given that we now have the possibility to execute Configure remotely

?X: thanks to the new src.U support, we have to face the possibility

?X: of having to ask where the source lie, which means we need the Myread.U

?X: stuff and possibly other things that might echo something on the

?X: screen...

?X:

?X: That's not pretty, and might be confusing in 99% of the time. So...

?X: We introduce a new realsilent variable which is set when -s is given,

?X: and we force silent=true if -S is supplied. The Extractall.U unit

?X: will then undo the >&4 redirection based on the value of the

?X: realsilent variable... -- RAM, 18/93/96

?X:

```
: option parsing
```

```
while test $# -gt 0; do
case "$1" in
-d) shift; fastread=yes;;
-e) shift; alldone=cont;;
-f)
shift
cd ..
if test -r "$1"; then
config_sh="$1"
else
echo "$me: cannot read config file $1." >&2
error=true
fi
```

```

cd UU
shift;;
-h)
shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift; override=true;;
-S) shift; silent=true; extractsh=true;;
-D)
shift
case "$1" in
*=)
echo "$me: use '-U symbol=', not '-D symbol='." >&2
echo "$me: ignoring -D $1" >&2
;;
*=*) echo "$1" | \
sed -e "s/'\"/\"'/g" -e "s/=(.*)/=\\1/'" >> optdef.sh;;
*) echo "$1='define'" >> optdef.sh;;
esac
shift
;;
-U)
shift
case "$1" in
*=) echo "$1" >> optdef.sh;;
*=*)
echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
echo "$me: ignoring -U $1" >&2
;;
*) echo "$1='undef'" >> optdef.sh;;
esac
shift
;;
-A)
shift
xxx=""
yyy="$1"
zzz=""
uuu=undef
case "$yyy" in
*=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
case "$zzz" in
*.*) zzz="";;
*) xxx=append
zzz=" "`echo

```

```

"$yyy"|sed 's!^[^=]*=!!'^
    yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
    esac
    ;;
esac
case "$xxx" in
") case "$yyy" in
*)*) xxx=`echo "$yyy"|sed 's!:.*!!'^
    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'^
    zzz=`echo "$yyy"|sed 's!^[^=]*=!!'^
    yyy=`echo "$yyy"|sed 's!=.*!!'^ ;;
*) xxx=`echo "$yyy"|sed 's!:.*!!'^
    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'^ ;;
    esac
    ;;
esac
case "$xxx" in
append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
clear)
echo "$yyy=" >> posthint.sh ;;
define)
    case "$zzz" in
") zzz=define ;;
    esac
echo "$yyy=$zzz" >> posthint.sh ;;
eval)
echo "eval \"\$yyy=$zzz\"" >> posthint.sh ;;
prepend)
echo "$yyy=\"\$zzz\${$yyy}\"" >> posthint.sh ;;
undef)
    case "$zzz" in
")
zzz="$uuu" ;;
    esac
echo "$yyy=$zzz" >> posthint.sh ;;
    *) echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

```

```

case "$error" in
true)
cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
        [-U symbol] [-U symbol=] [-A command:symbol...]
-d : use defaults for all answers.
-e : go on without questioning past the production of config.sh.
-f : specify an alternate default configuration file.
-h : print this help message and exit (with an error status).
-r : reuse C symbols value if possible (skips costly nm extraction).
-s : silent mode, only echoes questions and essential information.
-D : define symbol to have some value:
    -D symbol      symbol gets the value 'define'
    -D symbol=value
        symbol gets the value 'value'
-E : stop at the end of questions, after having produced config.sh.
-K : do not use unless you know what you are doing.
-O : let -D and -U override definitions from loaded configuration file.
-S : perform variable substitutions on all .SH files (can mix with -f)
-U : undefine symbol:
    -U symbol      symbol gets the value 'undef'
    -U symbol=     symbol gets completely empty
-A : manipulate symbol after the platform specific hints have been applied:
-A symbol=value  append " "value to symbol
-A append:symbol=value  append value to symbol
-A define:symbol=value  define symbol to have value
    -A clear:symbol  define symbol to be "
-A define:symbol  define symbol to be 'define'
-A eval:symbol=value  define symbol to be eval of value
-A prepend:symbol=value  prepend value to symbol
-A undef:symbol  define symbol to be 'undef'
-A undef:symbol=  define symbol to be "
-V : print version number and exit (with
a zero status).
EOM
exit 1
;;
esac

```

?X:

?X: Unless they specified either -S or both -d and -e/E, make sure we're

?X: running interactively, i.e. attached to a terminal. Moved from Head.U to

?X: be able to handle batch configurations...

?X:

?X: We have to hardwire the Configure name and cannot use \$me, since if they

?X: said 'sh <Configure', then \$me is 'sh'...

?X:

: Sanity checks



```

case "$fastread$alldone" in
yescont|yesexit) ;;
*)
case "$extractsh" in
true) ;;
*)
if test ! -t 0; then
echo "Say 'sh Configure', not 'sh <Configure'"
exit 1
fi
;;
esac
;;
esac

```

?X: In silent mode, the standard output is closed. Questions are asked by  
?X: outputting on file descriptor #4, which is the original stdout descriptor.  
?X: This filters out all the "junk", since all the needed information is written  
?X: on #4. Note that ksh will not let us redirect output if the file descriptor  
?X: has not be defined yet, unlike sh, hence the following line...--RAM.

```

exec 4>&1
case "$silent" in
true)
exec 1>/dev/null;;
esac

```

: run the defines and the undefines, if any, but leave the file out there...

```
touch optdef.sh
```

```
./optdef.sh
```

: create the posthint manipulation script and leave the file out there...

?X: this file will be perused by Oldconfig.U

```
touch posthint.sh
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Options.U
```

No license file was found, but licenses were detected in source scan.

?RCS:

?RCS: Copyright (c) 2012 Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

```
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
```

```

cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view. Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
?C: This symbol contains the largest amount of bits that the CPU natively
?C: supports from the compiler's point of view. Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers. These are available using
?C: the "long long" C type. It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64 /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.

```

```

?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
val=$undef; set d_ilp32; eval $setvar
case "$intsize" in
8)
echo " ILP64." >&4
val=$define; set d_ilp64; eval $setvar
val=$undef; set d_lp64; eval $setvar
;;
*)
echo " LP64." >&4
val=$define; set d_lp64; eval $setvar
val=$undef; set d_ilp64; eval $setvar
;;
esac
;;
*)
echo " ILP${ilp}." >&4
case "$ilp" in
32) val=$define;;
*) val=$undef;;
esac
set d_ilp32; eval $setvar
val=$undef; set d_ilp64; eval $setvar
val=$undef; set d_lp64; eval $setvar
;;
esac

```

```

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
case "$ilp" in
64) val=$define;;
*)
$cat >try.c <<EOCP
#include "static_assert.h"
long long foo;
int main()
{
STATIC_ASSERT(8
== sizeof(foo));
return 0;
}

```

```
EOCP
if $cc -c $ccflags try.c >/dev/null 2>&1; then
    echo " "
    echo "Your compiler also supports 64-bit emulation." >&4
    val=$define
fi
$rm -f try.*
;;
esac
set d_can64
eval $setvar

@end
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/ilp.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:07 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
?C: routine is available
?C: to change the effective gid of the current program.
?C:
?H:#$d_setegid HAS_SETEGID /**/
?H:
?LINT:set d_setegid
```

```
: see if setegid exists
set setegid d_setegid
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_setegid.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 2014 H.Merijn Brand
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:i_bfd: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_bfd:
```

```
?S: This variable conditionally defines the I_BFD symbol, and
```

```
?S: indicates whether a C program can include <bfd.h>.
```

```
?S:.
```

```
?C:I_BFD:
```

```
?C: This symbol, if defined, indicates that <bfd.h> exists and
```

```
?C: can be included.
```

```
?C:.
```

```
?H:#$i_bfd I_BFD /**/
```

```
?H:.
```

```
?LINT:set i_bfd
```

```
: see if this is a bfd.h system
```

```
set bfd.h i_bfd
```

```
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_bfd.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```

?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:25 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
?C: to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sjis2jis.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:26:40 ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:57 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
nm d_gnulibc osname egrep rsrc

```

```

?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library. Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
dflt="
case "$d_gnulibc" in
"$define")
echo " "
echo "nm probably won't work on the GNU C Library." >&4
dflt=n
;;
esac
case "$dflt" in
")
if $test "$osname" = aix -a "$XPASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
echo " "
echo "Whoops! This is an AIX system without /lib/syscalls.exp!" >&4
echo "'nm' won't be sufficient on this system." >&4
dflt=n
fi
;;

```

```

esac
case "$dflt" in
") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
if $test $dflt -gt 20; then
  dflt=y
else
  dflt=n
fi
;;
esac
;;
*)
case "$usenm" in
true|$define) dflt=y;;
*) dflt=n;;
esac
;;
esac
$cat <<EOM

```

I can use \$nm to extract the symbols from your C libraries. This is a time consuming task which may generate huge output on the disk (up to 3 megabytes) but that should make the symbols extraction faster. The alternative is to skip the 'nm' extraction part and to compile a small test program instead to determine whether each symbol is present. If you have a fast C compiler and/or if your 'nm' output cannot be parsed, this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM

```

rp="Shall I use $nm to extract C symbols from the libraries?"
./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

```

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag  
?X: was provided to configure (in which case we simply re-use the previous  
?X: values).

```

runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

```

: nm options which may be necessary



```

case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="# Mach
elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
else
  nm_opt=""
fi;;
esac

```

: nm options which may be necessary for shared libraries but illegal

: for archive

libraries. Thank you, Linux.

```

case "$nm_so_opt" in
") case "$myuname" in
*linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
    nm_so_opt='--dynamic'
  fi
  ;;
esac
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/usenm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sitescript.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: sitescript.U,v \$

?RCS:

?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \

Setprefixvar sitebin siteprefix

?MAKE: -pick add \$@ %<

?Y:TOP

?D:sitescript="

?S:sitescript:

?S: This variable holds the name of the directory in which the user wants

?S: to put add-on publicly executable files for the package in question. It

?S: is most often a local directory such as /usr/local/bin. Programs using

?S: this variable must be prepared to deal with ~name substitution.

?S: The standard

distribution will put nothing in this directory.

?S: After perl has been installed, users may install their own local

?S: scripts in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:sitescriptexp="

?S:sitescriptexp:

?S: This is the same as the sitescript variable, but is filename expanded at

?S: configuration time, for use in your makefiles.

?S:.

?D:installsitescript="

?S:installsitescript:

?S: This variable is usually the same as sitescriptexp, unless you are on

?S: a system running AFS, in which case they may differ slightly. You

?S: should always use this variable within your makefiles for portability.

?S:.

?LINT:change prefixvar

?LINT:set installsitescript

?LINT:set sitescript

?LINT:set sitescriptexp

: determine where add-on public executable scripts go

case "\$sitescript" in

") dflt=\$siteprefix/script

\$test -d \$dflt || dflt=\$sitebin ;;

\*) dflt="\$sitescript" ;;

esac

fn=d~+

rp='Pathname where add-on public executable scripts

should be installed?'

./getfile

prefixvar=sitescript

./setprefixvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/sitescript.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi \$

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:54 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
if $test -r /unix; then
dflt=/unix
elif $test -r /vmunix; then
dflt=/vmunix
elif $test -r /xenix; then
dflt=/xenix
elif $test -r /mach; then
dflt=/mach
elif
$test -r /dgux; then
dflt=/dgux
elif $test -r /hp-ux; then
dflt=/hp-ux
elif $test -r /syst; then
dflt=/syst
elif $test -r /arix; then
dflt=/arix
elif $test -r /irix; then
dflt=/arix
else
dflt='unknown'
set X /*x
shift
case $# in
1)
if $test -r "$1"; then

```

```

    dflt="$1"
fi
;;
esac
fi
;;
*)
dflt="$kernel"
;;
esac
fn=f
rp='What is the name of your kernel?'
./getfile
kernel="$sans"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/kernel.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_faststdio: Setvar \

d\_stdstdio d\_stdio\_ptr\_lval d\_stdio\_cnt\_lval d\_stdio\_ptr\_lval\_sets\_cnt

?MAKE: -pick add \$@ %<

?S:d\_faststdio:

?S: This variable conditionally defines the HAS\_FAST\_STDIO symbol,

?S: which indicates to the C program that the "fast stdio" is available

?S: to manipulate the stdio buffers directly.

?S:.

?C:HAS\_FAST\_STDIO:

?C: This symbol, if defined, indicates that the "fast stdio"

?C: is available to manipulate the stdio buffers directly.

?C:.

?H:#\$d\_faststdio HAS\_FAST\_STDIO /\*\*/

?H:.

?LINT:set d\_faststdio

: see if fast\_stdio exists

val="\$undef"

case "\$d\_stdstdio:\$d\_stdio\_ptr\_lval" in

"\$define:\$define")

case "\$d\_stdio\_cnt\_lval\$d\_stdio\_ptr\_lval\_sets\_cnt" in

\*\$define\*)

```
echo "You
seem to have 'fast stdio' to directly manipulate the stdio buffers." >& 4
val="$define"
;;
esac
;;
esac
set d_faststdio
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_faststdio.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_getsent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_getsent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getsent:

?S: This variable conditionally defines HAS\_GETSERVENT if getservernt() is

?S: available to look up network services in some data base or another.

?S:.

?C:HAS\_GETSERVENT:

?C: This symbol, if defined, indicates that the getservernt() routine is

?C: available to look up network services in some

data base or another.

?C:.

?H:#\$d\_getsent HAS\_GETSERVENT /\*\*/

?H:.

?LINT:set d\_getsent

: see if getservernt exists

set getservernt d\_getsent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getsent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_getgrps.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:08 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_getgrps: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getgrps:

?S: This variable conditionally defines the HAS\_GETGROUPS symbol, which

?S: indicates to the C program that the getgroups() routine is available

?S: to get the list of process groups.

?S:.

?C:HAS\_GETGROUPS (GETGROUPS):

?C: This symbol, if defined, indicates that the getgroups()  
routine is

?C: available to get the list of process groups. If unavailable, multiple

?C: groups are probably not supported.

?C:.

?H:#\$d\_getgrps HAS\_GETGROUPS /\*\*/

?H:.

?LINT:set d\_getgrps

: see if getgroups exists

set getgroups d\_getgrps

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_getgrps.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_popen.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_popen.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:47 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_popen: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_popen:

?S: This variable conditionally defines HAS\_POPEN if popen() is

?S: available to open a pipe from a process.

?S:.

?C:HAS\_POPEN (POPEN):

?C: This symbol, if defined, indicates that the popen routine is

?C: available to open a pipe from a process.

?C:.

?H:#\$d\_popen HAS\_POPEN /\*\*/

?H:.

?LINT:set

d\_popen

: see if popen exists

set popen d\_popen

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_popen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_syscallproto: Hasproto i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_syscallproto:

?S: This variable conditionally defines the HAS\_SYSCALL\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the syscall() function. Otherwise, it is

?S: up to the program to supply one.  
?S:.  
?C:HAS\_SYSCALL\_PROTO:  
?C: This symbol, if defined, indicates that the system provides  
?C: a prototype for the syscall() function. Otherwise, it is up  
?C: to the program to supply one. Good guesses are

?C: extern

```
int syscall(int, ...);
```

?C: extern int syscall(long, ...);

?C:.

```
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
```

?H:.

```
?LINT:set d_syscallproto
```

```
: see if prototype for syscall is available
```

```
echo " "
```

```
set d_syscallproto syscall $i_unistd unistd.h
```

```
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_syscallproto.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_uwait.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/01/24 14:10:49 ram
```

```
?RCS: patch16: added knowledge about wait3()
```

```
?RCS: patch16: revised 'union wait' look-up algorithm
```

```
?RCS: patch16: fixed make dependency line accordingly
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:07:54 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
```

```
Setvar Findhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_uwait:
```

```
?S: This symbol
```



conditionally defines `UNION_WAIT` which indicates to the C

?S: program that argument for the `wait()` system call should be declared as

?S: 'union wait status' instead of 'int status'.

?S:.

?S:d\_uwait3:

?S: This symbol conditionally defines `UNION_WAIT3` which indicates to the C

?S: program that the first argument for the `wait3()` system call should be

?S: declared as 'union wait status' instead of 'int status'.

?S:.

?C:UNION\_WAIT:

?C: This symbol if defined indicates to the C program that the argument

?C: for the `wait()` system call should be declared as 'union wait status'

?C: instead of 'int status'. You probably need to include `<sys/wait.h>`

?C: in the former case (see `I_SYSWAIT`).

?C:.

?C:UNION\_WAIT3:

?C: This symbol if defined indicates to the C program that the first argument

?C: for the `wait3()` system call should be declared as 'union wait status'

?C: instead of 'int status'. You probably need to include `<sys/wait.h>`

?C: in the former case (see `I_SYSWAIT`). It seems safe to assume that

the

?C: same rule applies to the second parameter of `wait4()`.

?C:.

?H:#\$d\_uwait UNION\_WAIT /\*\*/

?H:#\$d\_uwait3 UNION\_WAIT3 /\*\*/

?H:.

?T:val2 flags f also

?LINT:set d\_uwait d\_uwait3

: see if union wait is available

echo " "

?X:

?X: Unfortunately, we can't just `grep <sys/wait.h>` for "union wait" because

?X: some weird systems (did I hear HP-UX?) define union wait only when `_BSD`

?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to

?X: its limits by requiring `wait()` to use `(int *)` but `wait3()` to use

?X: `(union wait *)`, unless `_BSD` is defined and `-lbsd` is used, in which case

?X: `wait()` also expects `(union wait *)`. Aaargh!--RAM

?X:

set X \$cppflags

shift

flags="

also="

for f in \$\*; do

case "\$f" in

\*NO\_PROTO\*) ;;

\*) flags="\$flags \$f";;

esac

done

```

$cat `./findhdr sys/wait.h` /dev/null | \
$ccpstdin $flags $ccpminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
echo "Looks like your <sys/wait.h> knows about 'union wait'..."
>&4
val="$define"
@if UNION_WAIT
also='also '
if $contains 'extern.*wait[ ]*([ ]*int' wait.out >/dev/null 2>&1
then
echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
val="$undef"
also="
elif $contains 'extern.*wait[ ]*([ ]*union' wait.out >/dev/null 2>&1
then
echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
else
echo "So we'll use that for wait()." >&4
fi
@end
@if UNION_WAIT3 || d_uwait3
val2="$define"
@end
@if UNION_WAIT3
if $contains 'extern.*wait3[ ]*([ ]*int' wait.out >/dev/null 2>&1
then
echo "However wait3() seems to expect an 'int' pointer, weird." >&4
val2="$undef"
elif $contains 'extern.*wait3[ ]*([ ]*union' wait.out >/dev/null 2>&1
then
echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
else
echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
fi
@end
else
echo "No trace of 'union wait' in <sys/wait.h>..." >&4
val="$undef"
@if UNION_WAIT && UNION_WAIT3
echo
"Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait

```

```
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_uwait.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_pwd.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 14:10:57 ram

?RCS: patch56: use setvar so hint file values can override our guesses (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:03:27 ram

?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:25 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit checks whether there is a pwd system or not

?X:

?MAKE:i\_pwd d\_pwquota d\_pwage d\_pwchange d\_pwclass d\_pwexpire d\_pwcomment:

\

contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar

?MAKE: -pick add \$@ %<

?S:i\_pwd:

?S: This variable conditionally defines I\_PWD, which indicates

?S: to the C program that it should include <pwd.h>.

?S:.

?S:d\_pwquota:

?S: This variable conditionally defines PWQUOTA, which indicates

?S: that struct passwd contains pw\_quota.

?S:.

?S:d\_pwage:

?S: This variable conditionally defines PWAGE, which indicates  
?S: that struct passwd contains pw\_age.  
?S:.  
?S:d\_pwchange:  
?S: This variable conditionally defines PWCHANGE, which indicates  
?S: that struct passwd contains pw\_change.  
?S:.  
?S:d\_pwclass:  
?S: This variable conditionally defines PWCLASS, which indicates  
?S: that struct passwd contains pw\_class.  
?S:.  
?S:d\_pwexpire:  
?S: This variable conditionally defines PWEXPIRE, which indicates  
?S: that struct passwd contains pw\_expire.  
?S:.  
?S:d\_pwcomment:  
?S: This variable conditionally defines PWCOMMENT, which indicates  
?S: that struct passwd contains pw\_comment.  
?S:.  
?C:I\_PWD:  
?C: This symbol,  
if defined, indicates to the C program that it should  
?C: include <pwd.h>.  
?C:.  
?C:PWQUOTA:  
?C: This symbol, if defined, indicates to the C program that struct passwd  
?C: contains pw\_quota.  
?C:.  
?C:PWAGE:  
?C: This symbol, if defined, indicates to the C program that struct passwd  
?C: contains pw\_age.  
?C:.  
?C:PWCHANGE:  
?C: This symbol, if defined, indicates to the C program that struct passwd  
?C: contains pw\_change.  
?C:.  
?C:PWCLASS:  
?C: This symbol, if defined, indicates to the C program that struct passwd  
?C: contains pw\_class.  
?C:.  
?C:PWEXPIRE:  
?C: This symbol, if defined, indicates to the C program that struct passwd  
?C: contains pw\_expire.  
?C:.  
?C:PWCOMMENT:  
?C: This symbol, if defined, indicates to the C program that struct passwd  
?C: contains pw\_comment.  
?C:.

```

?H:#$i_pwd I_PWD /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
      d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
xxx=`./findhdr pwd.h`
$cpstdin $cpflags $cpminus < $xxx >$$h

if $contains 'pw_quota' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwquota
eval $setvar

if $contains 'pw_age' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"

```

```

fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$h >/dev/null 2>&1; then
  val="$define"
else
  val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$h >/dev/null 2>&1; then
  val="$define"
else
  val="$undef"
fi
set d_pwcomment
eval $setvar

$rm -f $$h
;;
*)
val="$undef";
set
d_pwquota; eval $setvar
set d_pwage; eval $setvar
set d_pwchange; eval $setvar
set d_pwclass; eval $setvar
set d_pwexpire; eval $setvar
set d_pwcomment; eval $setvar
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_pwd.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```

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?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```

?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:02:19 ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:20 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
    used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
    echo "Checking to see which signal is sent to the process by abort()..." >&4
    echo "abort" > abort.sh
    chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
    for signal in SIGIOT SIGILL SIGABRT; do
        case "$abortsig" in
            ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
    signal($signal, caught);
#endif
    if (-1 == abort())
        exit(1);
    exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
    set abort
    if eval $compile; then
        (./abort.sh) >/dev/null 2>&1

```

```

    case $? in
    0) abortsig="$signal";;
    esac
fi
;;
esac
done
;;
esac
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
if ./usg; then
    dflt="SIGIOT"
else
    dflt="SIGILL"
fi;;
*)
    dflt="$abortsig"
;;
esac
rp="Which signal does abort() send to the process (signal name)?"
./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/abortsig.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

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```
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```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_SHM_MAC.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:05:41 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_SHM_MAC:
```

```
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
```



?S: the ctob() macro.

?S:.

?S:d\_SHM\_PRM:

?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the

?S: NBPC constant.

?S:.

?S:d\_SHM\_SEG:

?S: Sometimes,

the SHMLBA manifest needs sys/seg.h, usually for the

?S: SNUMSHFT constant.

?S:.

?S:d\_SHM\_IMMU:

?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the

?S: stob() macro.

?S:.

?C:SHMLBA\_WANTS\_SYSMACROS:

?C: This value tells us to include <sys/sysmacros.h> because SHMLBA

?C: needs something from there, probably the ctob() macro.

?C:.

?C:SHMLBA\_WANTS\_PARAM:

?C: This value tells us to include <sys/param.h> because SHMLBA needs

?C: something from there, probably the NBPC constant.

?C:.

?C:SHMLBA\_WANTS\_SEG:

?C: This value tells us to include <sys/seg.h> because SHMLBA needs

?C: something from there, probably the SNUMSHFT constant.

?C:.

?C:SHMLBA\_WANTS\_IMMU:

?C: This value tells us to include <sys/immu.h> because SHMLBA needs

?C: something from there, probably the stob() macro. (tower\_600 only?)

?C:.

?H:#\$d\_SHM\_MAC SHMLBA\_WANTS\_SYSMACROS /\* SHMLBA wants ctob()? \*/

?H:#\$d\_SHM\_PRM SHMLBA\_WANTS\_PARAM /\* SHMLBA wants NBPC? \*/

?H:#\$d\_SHM\_SEG SHMLBA\_WANTS\_SEG /\* SHMLBA wants

SNUMSHFT? \*/

?H:#\$d\_SHM\_IMMU SHMLBA\_WANTS\_IMMU /\* SHMLBA wants stob()? \*/

?H:.

?T:flags D\_sys\_immu D\_sys\_seg D\_sys\_sysmacros D\_sys\_param

: check for SHMLBA braindamage

d\_SHM\_MAC="\$undef"

d\_SHM\_PRM="\$undef"

d\_SHM\_SEG="\$undef"

d\_SHM\_IMMU="\$undef"

if \$test "\$d\_shm" = "\$define" ; then

echo " "

\$cat >&4 <<EOM

Checking to see if SHMLBA needs additional headers.

The headers I'll be checking are:

sys/macros.h (for the ctob() macro)  
sys/param.h (for NBPC)  
sys/seg.h (for SNUMSHFT)  
sys/immu.h (for the stob() macro)

EOM

```
$cat >shm_mac.c <<'EOCP'
```

```
#include <sys/types.h>
```

```
#include <sys/ipc.h>
```

```
#include <sys/shm.h>
```

```
#ifdef I_SYS_IMMU
```

```
#include <sys/immu.h>
```

```
#endif
```

```
#ifdef I_SYS_SYSMACROS
```

```
#include <sys/sysmacros.h>
```

```
#endif
```

```
#ifdef I_SYS_PARAM
```

```
#include <sys/param.h>
```

```
#endif
```

```
#ifdef I_SYS_SEG
```

```
#include <sys/seg.h>
```

```
#endif
```

```
int main() {
```

```
int foo = SHMLBA ;
```

```
}
```

```
EOCP
```

```
flags='xxx'
```

```
for D_sys_immu in "'-DI_SYS_IMMU'; do
```

```
for D_sys_seg in "'-DI_SYS_SEG'; do
```

```
for D_sys_sysmacros in "'-DI_SYS_SYSMACROS';
```

```
do
```

```
for D_sys_param in "'-DI_SYS_PARAM'; do
```

```
case "$flags" in
```

```
'xxx')
```

```
case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
```

```
"
```

```
echo "Trying it normally..."
```

```
::
```

```
*)
```

```
echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
```

```
::
```

```
esac
```

```
if $cc $ccflags \
```

```
$D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
```

```
-o shm_mac shm_mac.c >/dev/null 2>&1 ; then
```

```
set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
```

```

shift
flags="$*"
echo "Succeeded with $flags"
fi
;;
esac
done
done
done
done
case "$flags" in
xxx)
echo "I don't know how to keep SHMLBA happy. Good luck!"
;;
esac
case "$flags" in
*I_SYS_PARAM*) d_SHM_PRM="$define";;
esac
case "$flags" in
*I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
esac
case "$flags" in
*I_SYS_SEG*) d_SHM_SEG="$define";;
esac
case "$flags" in
*I_SYS_IMMU*) d_SHM_IMMU="$define";;
esac
fi
$rm -f shm_mac*

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_SHM_MAC.U
```

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_strtouq: Inlibc cat Compile run

?MAKE: -pick add \$@ %<

?S:d\_strtouq:

?S: This variable conditionally defines the HAS\_STRTOUQ symbol, which

?S: indicates to the C program that the strtouq() routine is available.

?S:.

```

?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
?H:#$d_strtouq HAS_STRTOUQ /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
$cat <<EOM
Checking whether your strtouq() works okay...
EOM
$cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
long long eull, int een) {
unsigned long long gull;
errno = 0;
gull = strtouq(s, 0, 10);
if (!(gull == eull) && (errno == een)))
bad++;
}
int main() {
check(" 1", 1LL, 0);
check(" 0", 0LL, 0);
check("18446744073709551615", 18446744073709551615ULL, 0);
check("18446744073709551616", 18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
check("-1", 18446744073709551615ULL, 0);
check("-18446744073709551614", 2LL, 0);
check("-18446744073709551615", 1LL, 0);
check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
if (!bad)
printf("ok\n");
return 0;
}
EOCP
set try
if eval $compile; then

```

```

case "$run ./try`" in
ok) echo "Your strtouq() seems to be working okay." ;;
*) cat <<EOM >&4
Your strtouq() doesn't seem to be working
okay.
EOM
    d_strtouq="$undef"
    ;;
esac
else
echo "(I can't seem to compile the test program--assuming it doesn't)"
d_strtouq="$undef"
fi
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_strtouq.U
```

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?RCS: \$Id: d\_gmtime\_r.U,v 0RCS:

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_gmtime\_r gmtime\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_time i\_systime extern\_C

?MAKE: -pick add \$@ %<

?S:d\_gmtime\_r:

?S: This variable conditionally defines the HAS\_GMTIME\_R symbol,

?S: which indicates to the C program that the gmtime\_r()

?S: routine is available.

?S:.

?S:gmtime\_r\_proto:

?S: This variable encodes the prototype of gmtime\_r.

?S: It is zero if d\_gmtime\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_gmtime\_r

?S: is defined.

?S:.

?C:HAS\_GMTIME\_R:

?C: This symbol, if defined, indicates that the gmtime\_r routine

?C: is available to gmtime re-entrantly.

?C:.

?C:GMTIME\_R\_PROTO:

```

?C: This
symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
: see if gmtime_r exists
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
case "$d_gmtime_r_proto:$usethreads" in
":define") d_gmtime_r_proto=define
set d_gmtime_r_proto gmtime_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_gmtime_r_proto" in
define)
case "$gmtime_r_proto" in
"|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
./protochk "$$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
esac
case "$gmtime_r_proto" in
"|0) try='int gmtime_r(const time_t*, struct tm*);'
./protochk "$$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
esac
case
"$gmtime_r_proto" in
"|0) d_gmtime_r=undef
gmtime_r_proto=0
echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
* ) case "$gmtime_r_proto" in
REENTRANT_PROTO*) ;;
*) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "gmtime_r has no prototype, not using it." >&4 ;;
esac
d_gmtime_r=undef

```

```
gmtime_r_proto=0
;;
esac
;;
*) gmtime_r_proto=0
;;
esac
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_gmtime_r.U
```

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?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_attribut.U,v \$

?RCS: Revision 3.0.1.3 1995/01/30 14:33:45 ram

?RCS: patch49: test C program now includes <stdio.h> (WED)

?RCS:

?RCS: Revision 3.0.1.2 1995/01/11 15:25:47 ram

?RCS: patch45: fixed typo in the d\_attribut variable (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:08:55 ram

?RCS: patch36: created by ADO

?RCS:

?MAKE:d\_attribut: Myread Oldconfig cat cc cflags rm Setvar contains

?MAKE: -pick add \$@ %<

?S:d\_attribut

(d\_attrib):

?S: This variable conditionally defines HASATTRIBUTE, which

?S: indicates the C compiler can check for function attributes,

?S: such as printf formats.

?S:.

?C:HASATTRIBUTE ~ %< (GNUC\_ATTRIBUTE\_CHECK):

?C: This symbol indicates the C compiler can check for function attributes,

?C: such as printf formats. This is normally only supported by GNU cc.

?C:.

?H:%<:#\$d\_attribut HASATTRIBUTE /\*\*/

```

?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__( _arg_ )
?H:?%<:#endif
?H:.
?W:?%<: __attribute__
?LINT:set d_attribut
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
echo "Your C compiler doesn't fully support __attribute__."
val="$undef"
else
echo
"Your C compiler supports __attribute__."
val="$define"
fi
else
echo "Your C compiler doesn't seem to understand __attribute__ at all."
val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_attribut.U

```

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?RCS:

?RCS: \$Log: d\_strctcpy.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:34 ram



```

?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCTURE_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
?C:USE_STRUCTURE_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures. If undefined, you'll
?C: need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCTURE_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
  struct blurfl {
    int dyick;
  } foo, bar;

  foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
  val="$define"
  echo "Yup, it can."
else
  val="$undef"
  echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_strctcpy.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:31:14 ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc. This variable allows us to determine in a makefile
?S: if we really
    have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
|"byacc") val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_byacc.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```

?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
  cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
  DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
  echo "LDBL_DIG found." >&4
  val="$define"
else
  echo "LDBL_DIG NOT found." >&4
  val="$undef"
fi
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_ldbl_dig.U

```

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?RCS:

```

?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
val="$define"
echo "You have isnormal."
else
val="$undef"
echo "You do not have isnormal."
fi
$rm_try
set d_isnormal
eval $setvar

```

#### Found

```

in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $

```

?RCS: Revision 3.0.1.5 1995/05/12 11:59:11 ram

?RCS: patch54: split awk command onto two lines for older awk's (ADO)

?RCS:

?RCS: Revision 3.0.1.4 1995/01/11 14:55:57 ram

?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI

?RCS: patch45: added more cpp symbols (JHI)

?RCS:

?RCS: Revision 3.0.1.3 1994/10/29 15:51:32 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: new symbols ardent and titan (ADO)

?RCS:

?RCS:

Revision 3.0.1.2 1994/06/20 06:53:32 ram

?RCS: patch30: extended cpp symbol lookup list (JHI)

?RCS: patch30: renamed attrlist symbol into al for brevity

?RCS:

?RCS: Revision 3.0.1.1 1993/12/15 08:14:14 ram

?RCS: patch15: added new cpp symbols \_\_bsdi\_\_ and BSD\_NET2

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:50 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X: This unit produces a shell script called Cppsym, which can be used to

?X: determine whether any in a list of symbols is defined by the C compilation

?X: chain (C preprocessor symbols plus C compiler native ones).

?X: It can determine the status of any symbol, though the symbols in \$al

?X: are more easily determined. If you want to add to \$al you can do

?X: it in Myinit.U.

?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \  
 eunicefix Guess awk cat tr sed sort rm rm\_try startsh osname \  
 +cc +gccversion test comm uniq echo Options trnl \  
 optimize ccflags ldflags libs cpp\_stuff cpp

?MAKE: -pick add \$@ %<

?T:also

symbols i postprocess\_cc\_v tHdrH

?X:

?X: The symbol list is in alpha order for ease of maintenance...

?X:

?X: Lots of new symbols (mostly rummaged from gcc), courtesy of

?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94

?X:

?S:ccsymbols:

?S: The variable contains the symbols defined by the C compiler alone.

?S: The symbols defined by cpp or by cc when it calls cpp are not in

?S: this list, see cppsymbols and cppccsymbols.

?S: The list is a space-separated list of symbol=value tokens.

?S:.

?S:cppsymbols:

?S: The variable contains the symbols defined by the C preprocessor  
 ?S: alone. The symbols defined by cc or by cc when it calls cpp are  
 ?S: not in this list, see ccsymbols and cppcsymbols.  
 ?S: The list is a space-separated list of symbol=value tokens.  
 ?S:.  
 ?S:cppcsymbols:  
 ?S: The variable contains the symbols defined by the C compiler  
 ?S: when it calls cpp. The symbols defined by the cc alone or cpp  
 ?S: alone are not in this list, see ccsymbols and cppsymbols.  
 ?S: The  
 list is a space-separated list of symbol=value tokens.  
 ?S:.  
 ?F:./Cppsym  
 ?F:./Cppsym.know  
 ?F:!Cppsym.true  
 ?F:!ccsym.com  
 ?F:!ccsym.cpp  
 ?F:!ccsym.own  
 ?X: fake LINT hints  
 ?LINT:change ccflags  
 ?LINT:extern s  
 ?LINT:extern s\_\_  
 : Preprocessor symbols  
 echo " "  
 \$echo "Guessing which symbols your C compiler and preprocessor define..." >&4  
 ?X: If your symbol is mixed case, just add it as-is.  
 ?X: All symbols will be transformed to both all-lower and all-upper.  
 ?X: Also drop any leading/trailing underscores, the scan will try all those.  
 \$cat <<'EOSH' > Cppsym.know  
 a29k aarch64 ABI64 aegis AES\_SOURCE AIX AIX32 AIX370 AIX41 AIX42  
 AIX43 aixpc AIX\_SOURCE alliant ALL\_SOURCE alpha AM29000 am29000  
 AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI\_C\_SOURCE apollo arch\_ppc  
 arch\_pwr ardent ARM ARM32 atarist att386 att3b  
 BeOS BIG\_ENDIAN BIT\_MSFS BSD bsd bsd43 bsd4\_2 BSD4\_3 bsd4\_3 bsd4\_4  
 BSDCOMPAT bsdi BSD\_4\_3 BSD\_4\_4 BSD\_NET2 BSD\_TIME BSD\_TYPES bull  
 byteorder byte\_order  
 c cadmus clang clipper CMU COFF COMPILER\_VERSION  
 concurrent  
 convex cpu CRAY cray CRAYMPP ctix CX\_UX CYGWIN  
 DECC DGUX DGUX\_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX  
 ELF encore EPI EXTENSIONS  
 FAVOR\_BSD FILE\_OFFSET\_BITS FORTIFY\_SOURCE FreeBSD  
 GCC\_NEW\_VARARGS gcos gcx gimpel GLIBC GLIBC\_MINOR GNUC GNUC\_MINOR  
 GNU\_LIBRARY GNU\_SOURCE GO32 gould GOULD\_PN  
 H3050R H3050RX hbullx20 hcx host\_mips hp200 hp300 HP700 hp700  
 hp800 hp9000 hp9000s200 hp9000s300 hp9000s400  
 hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX\_SOURCE hp\_osf  
 i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64

iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64  
INLINE\_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium  
ksr1  
LANGUAGE\_C LARGEFILE64\_SOURCE LARGEFILE\_SOURCE LARGE\_FILE\_API  
LFS64\_LARGEFILE LFS\_LARGEFILE LIBCATAMOUNT Linux LITTLE\_ENDIAN  
LONG64 LONGDOUBLE LONGLONG LONG\_DOUBLE LONG\_LONG LP64 luna  
luna88k Lynx  
M68000 m68k m88100 m88k M88KBCS\_TARGET MACH machine MachTen  
MATH\_HAS\_NO\_SIDE\_EFFECTS mc300 mc500 mc68000 mc68010 mc68020  
mc68030 mc68040 mc68060  
mc68k mc68k32 mc700 mc88000 mc88100  
merlin mert MiNT mips MIPSEB MIPSEL MIPS\_FPSET MIPS\_ISA MIPS\_SIM  
MIPS\_SZINT MIPS\_SZLONG MIPS\_SZPTR MODERN\_C motorola MSDOS  
MTXINU MULTIMAX MVS mvs M\_AMD64 M\_ARM M\_ARM\_T M\_COFF M\_I186 M\_I286  
M\_I386 M\_I8086 M\_I86 M\_I86SM M\_IA64 M\_IX86 M\_PPC M\_SYS3 M\_SYS5  
M\_SYSIII M\_SYSV M\_UNIX M\_X86 M\_XENIX  
n16 ncl\_el ncl\_mr NetBSD news1500 news1700 news1800 news1900  
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000  
ns32000 ns32016 ns32332 ns32k nsc32000  
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF\_SOURCE  
PARAGON parisc pa\_risc PA\_RISC1\_1 PA\_RISC2\_0 pc532 pdp11 PGC PIC  
plexus PORTAR posix POSIX1B\_SOURCE POSIX2\_SOURCE POSIX4\_SOURCE  
POSIX\_C\_SOURCE POSIX\_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr  
QK\_USER QNX  
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT  
S390 S390x SA110 SCO scs sequent sgi SGI\_SOURCE SH SH3 sinix  
SIZE\_INT SIZE\_LONG SIZE\_PTR SOCKETS\_SOURCE SOCKET\_SOURCE sony  
sonyrisc sony\_news sparc sparcelite sparcv8 sparcv9 spectrum  
stardent stdc  
STDC\_EXT stratos sun sun3 sun386 Sun386i svr3 svr4  
SVR4\_2 SVR4\_SOURCE svr5 SX system SYSTYPE\_BSD SYSTYPE\_BSD43  
SYSTYPE\_BSD44 SYSTYPE\_SVR4 SYSTYPE\_SVR5 SYSTYPE\_SYSV SYSV SYSV3  
SYSV4 SYSV5 sysV68 sysV88  
Tek4132 Tek4300 thumb thw\_370 thw\_intel thw\_rs6000 titan TM3200  
TM5400 TM5600 tower tower32 tower32\_200 tower32\_600 tower32\_700  
tower32\_800 tower32\_850 tss  
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB  
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE\_BSD  
USE\_FILE\_OFFSET64 USE\_GNU USE\_ISOC9X USE\_LARGEFILE  
USE\_LARGEFILE64 USE\_MISC USE\_POSIX USE\_POSIX199309  
USE\_POSIX199506 USE\_POSIX2 USE\_REENTRANT USE\_SVID USE\_UNIX98  
USE\_XOPEN USE\_XOPEN\_EXTENDED USGr4 USGr4\_2 UTek Utek UTS UWIN  
uxpm uxps  
vax venix VMESA vms  
x86\_64 xenix Xenix286 XOPEN\_SOURCE XOPEN\_SOURCE\_EXTENDED XPG2  
XPG2\_EXTENDED XPG3 XPG3\_EXTENDED XPG4 XPG4\_EXTENDED  
z8000 zarch  
EOSH

```

# Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The
preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test $# -gt 0; then
    echo \${*} | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
    if $test -s Cppsym.got; then
        $rm -f Cppsym.got
    exit 0
    fi
    $rm -f Cppsym.got
    exit 1
else
    $tr " " "$trnl" | ./Cppsym.try
    exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
#if cpp_stuff == 1
#define STRINGIFY(a) "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a) #a
#define STRINGIFY(a)
    StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
# include "Blethch: How does this C preprocessor stringify macros?"
#endif

```



```

int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
    printf "#ifdef %s\nprintf(\"%s=%s\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
    printf "#ifdef _%s\nprintf(\"_%s=%s\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
    printf "#ifdef __%s\nprintf(\"__%s=%s\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
    printf "#ifdef __%s_\nprintf(\"__%s__=%s\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
&& $run ./try | $sed 's/ \\\\/g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
*linux*:*:*|*gnukfreebsd*:*:*|*gnu*:*:*)
    tHdrH=_tmpHdr
    rm -f $tHdrH.h' $tHdrH
    touch $tHdrH.h'
    # Filter out macro arguments, such as Linux's __INT8_C(c)
    if $cpp -dM $tHdrH.h' > $tHdrH_cppsym.h' && [ -s $tHdrH_cppsym.h' ]; then
        sed -e 's/#define[\\ ]*//;s/[\\ ]*$/ -e 's/(.*// <$tHdrH_cppsym.h' >$tHdrH_cppsym.real'
        if [ -s $tHdrH_cppsym.real' ]; then
            cat $tHdrH_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
        fi
    fi
    rm -f $tHdrH.h' $tHdrH_cppsym.h' $tHdrH_cppsym.real'
;;
esac
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|${tr} , ' "' ;;

```

```

esac
$cat >ccsym
<<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in ` $cc -v -c tmp.c 2>&1 $postprocess_cc_v `
do
case "$i" in
-D*) echo "$i" | $sed 's/^-D//';;
-A*) $test "$gccversion" && echo "$i" | $sed 's/^-A//' | $sed 's/(.*)/(.*)\^1=2/';;
esac
done
$rm_try
EOS
postprocess_cc_v="
chmod +x ccsym
$unicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file. ($sort apparently
?X: doesn't care.) --AD 14 July 1998
if $test -s ccsym1.raw; then
    $sort ccsym1.raw | $uniq >ccsym.raw
else
    mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/^=/ { print $0; next }
{ print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
echo "Your C compiler doesn't seem
to define any symbols!" >&4
echo " "
echo "However, your C preprocessor defines the following symbols:"
$cat Cppsym.true
ccsymbols="
cppsymbols=`$cat Cppsym.true`
cppsymbols=`echo $cppsymbols`
cppccsymbols="$cppsymbols"
else
if $test -s ccsym.com; then

```

```

echo "Your C compiler and pre-processor define these symbols:"
$sed -e 's/(.*)=.*/1/' ccsym.com
also='also '
symbols='ones'
cppccsymbols=`$cat ccsym.com`
cppccsymbols=`echo $cppccsymbols`
$test "$$silent" || sleep 1
fi
if $test -s ccsym.cpp; then
$test "$$also" && echo " "
echo "Your C pre-processor ${also}defines the following symbols:"
$sed -e 's/(.*)=.*/1/' ccsym.cpp
also='further '
cppsymbols=`$cat ccsym.cpp`
cppsymbols=`echo $cppsymbols`
$test "$$silent" || sleep 1
fi
if $test -s ccsym.own; then
$test "$$also" && echo " "
echo "Your C compiler ${also}defines the following cpp symbols:"
$sed -e 's/(.*)=1/1/' ccsym.own
$sed -e 's/(.*)=.*/1/' ccsym.own | $uniq >>Cppsym.true
ccsymbols=`$cat
ccsym.own`
ccsymbols=`echo $ccsymbols`
$test "$$silent" || sleep 1
fi
fi

: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*[[1-9][0-9]*) case "$optimize$ccflags" in
*-O*) case "$ccflags$cppsymbols" in
*_FORTIFY_SOURCE=*) # Don't add it again.
echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
;;
*) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
ccflags="$ccflags -D_FORTIFY_SOURCE=2"
;;
esac
;;
*) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
;;
esac
;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Cppsym.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Chk\_MANI.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Chk\_MANI.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 14:57:25 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.1 1994/10/31 09:33:14 ram

?RCS: patch44: now lists Begin instead of Myinit in its dependencies

?RCS: patch44: leading comment now explains how this unit is included

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit checks the package by making sure

every file listed in MANIFEST

?X: is present. It is systematically "included" via the Finish unit (which

?X: is always present in every Configure script), although it may result in

?X: an empty inclusion when no MANIFEST is present.

?X:

?MAKE:Chk\_MANI: Begin c n rsrc

?MAKE: -pick wipe \$@ %<

?T:filelist ans tmppwd

?X: This check happens at metaconfig-time, so it's ok to hard-code the path.

@if {test -f ../MANIFEST}

: Now test for existence of everything in MANIFEST

echo " "

if test -f "\$src/MANIFEST"; then

echo "First let's make sure your kit is complete. Checking..." >&4

?X:

?X: Files spelled uppercased and beginning with PACK are produced by the

?X: shell archive builder and may be removed by the user. Usually, they are

?X: not listed in the MANIFEST file, but you never know...

?X:

?X: "split -l" is the new way of running a split, but we also try the older way

?X:

```
awk ' $1 !~ /PACK[A-Z]+/ {print $1}' "$src/MANIFEST" |\
(split -l 50 2>/dev/null || split -50)
rm -f missing
tmppwd=`pwd`
for
filelist in x??; do
(cd "$src"; ls `cat "$tmppwd/$filelist" ` \
>/dev/null 2>>"$tmppwd/missing")
done
if test -s missing; then
cat missing >&4
cat >&4 <<'EOM'
```

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the distinct possibility that your kit is damaged, by typing 'y'es. If you do, don't blame me if something goes wrong. I advise you to type 'n'o and contact the author (<MAINTLOC>).

EOM

?X: Can't use \$echo at this early stage

```
echo $n "Continue? [n] $c" >&4
read ans
case "$ans" in
y*)
echo "Continuing..." >&4
rm -f missing
;;
*)
```

?X:

?X: Use kill and not exit, so that the trap gets executed to clean up

?X:

```
echo "ABORTING..." >&4
kill $$
;;
esac
else
echo "Looks good..."
fi
else
echo "There is no MANIFEST file. I hope your kit is complete !"
fi
rm -f missing x??
```

@end

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Chk\_MANI.U

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?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_flexfnam.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:04 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_flexfnam: cat rm test Setvar

?MAKE: -pick add \$@ %<

?S:d\_flexfnam:

?S: This variable conditionally defines the FLEXFILENAMES symbol, which

?S: indicates that the system supports filenames longer than 14 characters.

?S:.

?C:FLEXFILENAMES:

?C: This symbol, if defined, indicates that the system supports filenames

?C: longer than 14 characters.

?C:.

?H:#\$d\_flexfnam FLEXFILENAMES /\*\*/

?H:.

?T:first

second

?LINT:set d\_flexfnam

: see if we can have long filenames

echo " "

?X:

?X: We have to test in both /tmp and . because of NFS (remote server may allow

?X: long filenames while the local filesystem cannot support them). If at least

?X: one of those file systems cannot support long filenames, then we assume the

?X: whole system can't.

?X:

rmlist="\$rmlist /tmp/cf\$\$"

\$test -d /tmp/cf\$\$ || mkdir /tmp/cf\$\$

first=123456789abcdef

second=/tmp/cf\$\$/\$first

\$rm -f \$first \$second

```

if (echo hi >$first) 2>/dev/null; then
if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters. Sigh.' >&4
  val="$undef"
else
  if (echo hi >$second) 2>/dev/null; then
  if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'

```

That's peculiar... You can have filenames longer than 14 characters, but only on some of the filesystems. Maybe you are using NFS. Anyway, to avoid problems I shall consider your system cannot support long filenames at all.

EOM

```

  val="$undef"
  else
  echo
'You can have filenames longer than 14 characters.' >&4
  val="$define"
  fi
  else
  $cat <<'EOM'

```

How confusing! Some of your filesystems are sane enough to allow filenames longer than 14 characters but some others like /tmp can't even think about them. So, for now on, I shall assume your kernel does not allow them at all.

EOM

```

  val="$undef"
  fi
  fi
  else
  $cat <<'EOM'

```

You can't have filenames longer than 14 chars. You can't even think about them!

EOM

```

  val="$undef"
  fi
  set d_flexfnam
  eval $setvar
  $rm -rf /tmp/cf$$ 123456789abcde*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_flexfnam.U

```

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?RCS:

?MAKE:d\_isless: cat Compile rm\_try Setvar

?MAKE: -pick add \$@ %<

?S:d\_isless:

?S: This variable conditionally defines the HAS\_ISLESS symbol, which

?S: indicates to the C program that the isless() routine is available.

?S:.

?C:HAS\_ISLESS:

?C: This symbol, if defined, indicates that the isless routine is

?C: available to do the isless function.

?C:.

?H:#\$d\_isless HAS\_ISLESS /\*\*/

?H:.

?LINT:set d\_isless

: check for isless

echo "Checking to see if you have isless..." >&4

\$cat >try.c <<EOCP

#include <math.h>

int main() { return isless(2.0, 1.0); }

EOCP

set try

if eval \$compile; then

val="\$define"

echo "You have isless."

else

val="\$undef"

echo "You do not have isless."

fi

\$rm\_try

set d\_isless

eval \$setvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_isless.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Signal.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:20:01 ram

?RCS: patch61: created

?RCS:

?X:



?X: This unit produces three files:

?X: 1- A signal.c file, which, when compiled and run, produces an output like:

?X:

?X: HUP 1

?X: INT 2

?X: QUIT 3

?X: etc...

?X:

?X: 2- A signal.awk script to parse the output of signal.c, fill

?X: in gaps (up to NSIG) and move duplicates to the end.

?X: 3- A signal\_cmd script to compile signal.c and run it

?X: through

sort -n -k 2 | uniq | awk -f signal.awk.

?X: (we try also sort -n +1 since some old hosts don't grok sort -k)

?X: (This is called signal\_cmd to avoid OS/2 confusion with

?X: signal.cmd vs. signal.

?X: The signal\_cmd script also falls back on checking signals one at a

?X: time in case the signal.c program fails. On at least one version of

?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that

?X: is not defined by the compiler/linker. :-(. Further, on that same

?X: version of Linux, the user had a defective C-shell that gave an

?X: incorrect list for kill -l, so the fall-back didn't work.

?X:

?X: This unit is then used by sig\_name.U.

?X:

?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \  
Findhdr cppstdin +cppflags cppminus Compile \_o \_exe trnl run i\_stdlib \  
sysroot

?MAKE: -pick add \$@ %<

?X:all files declared as "public" since they're used from other units

?F:signal.c signal\_cmd signal.lst signal signal.awk

?T: xx xxx xxxfiles

?LINT:use rm run

\_o \_exe

?LINT:extern sig\_num\_init

: Trace out the files included by signal.h, then look for SIGxxx names.

?X: Remove SIGARRAYSIZE used by HPUX.

?X: Remove SIGSTKSIZE used by Linux.

?X: Remove SIGSTKSZ used by POSIX.

?X: Remove SIGTYP void lines used by OS2.

?X: Some cpps, like os390, do not give the file name anywhere

case "\$sig\_num\_init" in

)

if [ "X\$fieldn" = X ]; then

: Just make some guesses. We check them later.

xxx="\$sysroot/usr/include/signal.h \$sysroot/usr/include/sys/signal.h"

else

xxx=`echo '#include <signal.h>' |

```

$cpptest $cpptestminus $cpptestflags 2>/dev/null |
$grep '^[ ]*#.*include' |
$awk '{print \\$fieldn}' | $sed 's!'!'g' | \
$sed 's!\\\\\\\\\\\\\\\\!/'!'g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles=""
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
$test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~ /void/ {
print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdlib.h>
#ifdef I_STDLIB
#include <stdio.h>
#endif
int main() {

/* Strange style to avoid
deeply-nested #if/#else/#endif */
#ifdef NSIG
# ifdef _NSIG

```

```
# define NSIG (_NSIG)
# endif
#endif
```

```
#ifndef NSIG
# ifdef SIGMAX
# define NSIG (SIGMAX+1)
# endif
#endif
```

```
#ifndef NSIG
# ifdef SIG_MAX
# define NSIG (SIG_MAX+1)
# endif
#endif
```

```
#ifndef NSIG
# ifdef _SIG_MAX
# define NSIG (_SIG_MAX+1)
# endif
#endif
```

```
#ifndef NSIG
# ifdef MAXSIG
# define NSIG (MAXSIG+1)
# endif
#endif
```

```
#ifndef NSIG
# ifdef MAX_SIG
# define NSIG (MAX_SIG+1)
# endif
#endif
```

```
#ifndef NSIG
# ifdef SIGARRAYSIZE
# define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
# endif
#endif
```

```
#ifndef NSIG
# ifdef _sys_nsig
# define NSIG (_sys_nsig) /* Solaris 2.5 */
# endif
#endif
```

```
/* Default to some arbitrary number that's big enough to get most
of the common signals.
```

```

*/
#ifndef NSIG
# define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
printf "#ifdef SIG"; printf $1; printf "\n"
printf "printf(\"";
printf $1; printf " %%d\n\",SIG";
printf $1; printf ");\n"
printf "#endif\n"
}
END {
printf "#endif /* JUST_NSIG *\n";
printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
    if ($2 > maxsig) { maxsig = $2 }
    if (sig_name[$2]) {
dup_name[ndups] = $1
dup_num[ndups] = $2
ndups++
    }
    else {
sig_name[$2] = $1
sig_num[$2] = $2
    }
}
END {
    if (nsig == 0) {
        nsig = maxsig + 1
    }
    printf("NSIG %d\n", nsig);
    for (n = 1; n < nsig; n++) {
if (sig_name[n]) {
        printf("%s %d\n", sig_name[n], sig_num[n])
    }
}
}

```

```

else {
    printf("NUM%d %d\n", n, n)
}
}
for (n = 0; n < ndups; n++) {
printf("%s %d\n", dup_name[n], dup_num[n])
}
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
    echo "Using your existing signal.lst file"
    exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
    xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
    $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
    $uniq | $awk -f signal.awk >signal.lst
else
    echo "(I can't seem be able to compile the whole test program)" >&4
    echo "(I'll try it in little pieces.)" >&4
    set signal -DJUST_NSIG
    if eval $compile_ok; then
        $run ./signal$_exe > signal.nsg
        $cat signal.nsg
    else
        echo "I can't seem to figure out how many signals you have." >&4
        echo "Guessing 50." >&4
        echo 'NSIG 50' > signal.nsg
    fi
: Now look at all the signal names, one at a time.
for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
    $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}

```

```

EOCP
set signal
if eval $compile; then
    echo "SIG${xx} found."
    $run ./signal$_exe >> signal.ls1
else
    echo "SIG${xx} NOT found."
fi
done
if $test -s signal.ls1; then
    $cat
signal.nsg signal.ls1 |
    $sort -n | $uniq | $awk -f signal.awk >signal.lst
fi

fi
if $test -s signal.lst; then
    :
else
    echo "(AAK! I can't compile the test programs -- Guessing)" >&4
    echo 'kill -l' >signal
    set X `csh -f <signal`
    $rm -f signal
    shift
    case $# in
    0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
    esac
    echo $@ | $tr ' ' $trnl | \
        $awk '{ printf "%s %d\n", $1, ++s; }
        END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$unicefix signal_cmd
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Signal.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strstr.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_strstr.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:07:37 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:d\_strstr: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_strstr:  
 ?S: This variable conditionally defines HAS\_STRSTR if strstr() is  
 ?S: available to find substrings.  
 ?S:.  
 ?C:HAS\_STRSTR (STRSTR):  
 ?C: This symbol, if defined, indicates that the strstr routine is  
 ?C: available to find substrings.  
 ?C:.  
 ?H:#\$d\_strstr HAS\_STRSTR /\*\*/  
 ?H:.  
 ?LINT:set d\_strstr  
 :  
 see if strstr exists  
 set strstr d\_strstr  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strstr.U

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?RCS: \$Id\$  
 ?RCS:  
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 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
 ?RCS:  
 ?RCS: \$Log: d\_casti32.U,v \$  
 ?RCS: Revision 3.0.1.3 1995/05/12 12:10:45 ram  
 ?RCS: patch54: made sure cc and cflags are conditional dependencies  
 ?RCS:

```

?RCS: Revision 3.0.1.2 1994/10/29 16:09:37 ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:07:06 ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
+cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32 /**/
?H:.
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.'>&4
if $test "$intsize" -eq 4; then
xxx=int
else
xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
$xxx i32;
double f;
int result = 0;
signal(SIGFPE, blech);

f = (double) 0x7fffffff;
f = 10 * f;
i32 = ($xxx) f;

```



```

if (i32 != ($xxx) f)
  result |= 1;
exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
  ./try
  yyy=$?
else
  echo "(I can't
  seem to compile the test program--assuming it can't)"
  yyy=1
fi
case "$yyy" in
0) val="$define"
  echo "Yup, it can."
  ;;
*) val="$undef"
  echo "Nope, it can't."
  ;;
esac
set d_casti32
eval $setvar
$rm_try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_casti32.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4 1994/10/29 16:20:54 ram
?RCS: patch36: call ./usg and ./Cpplib explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3 1994/08/29 16:26:38 ram
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:

```

?RCS: Revision 3.0.1.2 1994/05/13 15:25:03 ram  
?RCS: patch27: undone ADO's fix in previous patch since it was useless  
?RCS:  
?RCS:  
Revision 3.0.1.1 1994/05/06 15:05:23 ram  
?RCS: patch23: now include all three defines in config.h (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:44 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:i\_termio i\_sgty i\_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run  
?MAKE: -pick add \$@ %<  
?S:i\_termio:  
?S: This variable conditionally defines the I\_TERMIO symbol, which  
?S: indicates to the C program that it should include <termio.h> rather  
?S: than <sgtty.h>.  
?S:.  
?S:i\_termios:  
?S: This variable conditionally defines the I\_TERMIOS symbol, which  
?S: indicates to the C program that the POSIX <termios.h> file is  
?S: to be included.  
?S:.  
?S:i\_sgty:  
?S: This variable conditionally defines the I\_SGTTY symbol, which  
?S: indicates to the C program that it should include <sgtty.h> rather  
?S: than <termio.h>.  
?S:.  
?C:I\_TERMIO:  
?C: This symbol, if defined, indicates that the program should include  
?C: <termio.h> rather than <sgtty.h>. There are also differences in  
?C: the  
?C: ioctl() calls that depend on the value of this symbol.  
?C:.  
?C:I\_TERMIOS:  
?C: This symbol, if defined, indicates that the program should include  
?C: the POSIX termios.h rather than sgtty.h or termio.h.  
?C: There are also differences in the ioctl() calls that depend on the  
?C: value of this symbol.  
?C:.  
?C:I\_SGTTY:  
?C: This symbol, if defined, indicates that the program should include  
?C: <sgtty.h> rather than <termio.h>. There are also differences in  
?C: the ioctl() calls that depend on the value of this symbol.  
?C:.  
?H:#\$i\_termio I\_TERMIO /\*\*/  
?H:#\$i\_termios I\_TERMIOS /\*\*/  
?H:#\$i\_sgty I\_SGTTY /\*\*/  
?H:.

```

?T:val2 val3
?LINT:set i_termio i_sgTTY i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
    set tcsetattr i_termios
    eval $inlibc
    val3="$i_termios"
fi
echo " "
case "$val3" in
    "$define") echo "You have POSIX termios.h... good!" >&4;;
    *)
        if ./CpPSym pyr; then
            case "$run /bin/universe" in
                ucb) if $test `./findhdr sgTTY.h`; then
                    val2="$define"
                    echo "<sgTTY.h> found." >&4
                    else
                        echo "System is pyramid with BSD universe."
                        ./warn "<sgTTY.h> not found--you could have problems."
                        fi;;
                *) if $test `./findhdr termio.h`; then
                    val="$define"
                    echo "<termio.h> found." >&4
                    else
                        echo "System is pyramid with USG universe."
                        ./warn "<termio.h> not found--you could have problems."
                        fi;;
                esac
        fi
    ?X: Start with USG to avoid problems if both usg/bsd was guessed
elif ./usg; then
    if $test `./findhdr termio.h`; then
        echo "<termio.h> found." >&4
        val="$define"
        elif $test `./findhdr sgTTY.h`; then
            echo "<sgTTY.h> found." >&4
            val2="$define"
            else
                ./warn "Neither <termio.h> nor <sgTTY.h> found--cross fingers!"
                fi
        else
            if $test `./findhdr sgTTY.h`; then
                echo "<sgTTY.h> found." >&4
                val2="$define"

```

```

    elif $test `./findhdr termio.h`; then
    echo "<termio.h>
found." >&4
    val="$define"
    else
    ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
    fi
fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/i_termio.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: usrinc.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:27:12 ram

?RCS: patch61: don't ask for the include path unless they are on a MIPS

?RCS:

?RCS: Revision 3.0.1.2 1995/05/12 12:24:36 ram

?RCS: patch54: ensure that ./mips always exists (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:18:31 ram

?RCS: patch23: ensure usrinc value is preserved across sessions (WED)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:58 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:usrinc incpath mips\_type:

test cat echo n c Getfile Guess \

Oldconfig eunicefix contains rm

?MAKE: -pick add \$@ %<

?S:usrinc:

?S: This variable holds the path of the include files, which is

?S: usually /usr/include. It is mainly used by other Configure units.

```

?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc=/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm... $c"
dflt=/usr/include'
incpath="
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
mips_type="
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
echo "Looks like a MIPS system..."
$cat >usr.c
<<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
if cc -E usr.c >usr.out && $contains /usr.out >/dev/null 2>&1; then
dflt='/bsd43/usr/include'
incpath='/bsd43'
mips_type='BSD 4.3'
else
mips_type='System V'
fi
$rm -f usr.c usr.out
echo "and you're compiling with the $mips_type compiler and libraries."
xxx_prompt=y
echo "exit 0" >mips
else
echo "Doesn't look like a MIPS system."
xxx_prompt=n
echo "exit 1" >mips
fi

```

```

chmod +x mips
$unicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
echo " "
rp='Where are the include files you want to use?'
./getfile
usrinc="$ans"
;;
*) usrinc="$dflt"
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/usrinc.U
```

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?RCS:

?MAKE:i\_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_quadmath:

?S: This variable conditionally defines I\_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I\_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_quadmath I\_QUADMATH /\*\*/

?H:.

?LINT:set i\_quadmath

: see if this is a quadmath.h system

set quadmath.h i\_quadmath

eval \$inhdr

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_quadmath.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi \$

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:18:08 ram
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:00:18 ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
?INIT:groupstype="
?S:groupstype:
?S: This
    variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups(). Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups(). Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information. This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
case

```

```
"$groupstype" in
") dflt="$gidtype" ;;
*) dflt="$groupstype" ;;
esac
$cat <<EOM
```

What type of pointer is the second argument to `getgroups()` and `setgroups()`?

Usually this is the same as group ids, `$gidtype`, but not always.

EOM

```
rp='What type pointer is the second argument to getgroups() and setgroups()?'
./myread
groupstype="$ans"
;;
*) groupstype="$gidtype";;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/groupstype.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: randfunc.U,v \$

?RCS: Revision 3.0 1993/08/18 12:09:39 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This is the new unit that should be used when random

?X: functions are to be used. It thus makes `randbits.U` obsolete.

?X:

?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym

?MAKE: -pick add \$@ %<

?S:randfunc:

?S: Indicates the name of the random number function to use.

?S: Values include `drand48`, `random`, and `rand`. In C programs,

?S: the `'nrand'` macro is defined

to generate uniformly distributed

?S: random numbers over the range `[0., 1.]` (see `mrand` and `nrand`).

?S:.



?S:mrnd:  
 ?S: Indicates the macro to be used to generate normalized  
 ?S: random numbers. Uses randfunc, often divided by  
 ?S: (double) ((1 << nrandbits) -1) in order to normalize the result.  
 ?S: In C programs, the macro 'nrnd' is mapped on mrnd.  
 ?S:.  
 ?S:seedfunc:  
 ?S: Indicates the random number generating seed function.  
 ?S: Values include srand48, srandom, and srand.  
 ?S:.  
 ?S:nrandbits:  
 ?S: Indicates how many bits are produced by the function used to  
 ?S: generate normalized random numbers.  
 ?S:.  
 ?C:nrnd:  
 ?C: This macro is to be used to generate uniformly distributed  
 ?C: random numbers over the range [0., 1].  
 ?C:.  
 ?C:seednrnd:  
 ?C: This symbol defines the macro to be used in seeding the  
 ?C: random number generator (see nrnd).  
 ?C:.  
 ?H:#define nrnd() \$mrnd /\*\*/  
 ?H:#define seednrnd(x) \$seedfunc(x) /\*\*/  
 ?H:.  
 ?T:cont val  
 ?LINT:nothere \$nrandbits)  
 : How can we generate normalized  
 random numbers ?  
 echo " "  
 case "\$randfunc" in  
 ")  
 if set drand48 val -f; eval \$csym; \$val; then  
 dflt="drand48"  
 echo "Good, found drand48()." >&4  
 elif set random val -f; eval \$csym; \$val; then  
 dflt="random"  
 echo "OK, found random()." >&4  
 else  
 dflt="rand"  
 echo "Yick, looks like I have to use rand()." >&4  
 fi  
 echo " "  
 ;;  
 \*)  
 dflt="\$randfunc"  
 ;;  
 esac

```

cont=true
while $test "$cont"; do
rp="Use which function to generate random numbers?"
./myread
?X: Invalidates nrandbits if the answer is not the default so
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
if $test "$ans" = "$dflt"; then
: null
else
nrandbits=""
fi
randfunc="$ans"
if set $ans val -f; eval $csym; $val; then
cont=""
else
dflt=n
rp="Function $ans does not exists. Use that name anyway?"
./myread
dflt=rand
case "$ans" in
[yY]*) cont="";;
esac
fi
case "$cont" in
")
case "$randfunc" in
drand48)
mrand="drand48()"
seedfunc="srand48"
;;
rand*)
case
"$nrandbits" in
")
echo "Checking to see how many bits your $randfunc() function produces..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main()
{
register int i;
register unsigned long tmp;
register unsigned long max = 0L;
extern long random();

for (i = 1000; i; i--) {
tmp = (unsigned long)$randfunc();
if (tmp > max) max = tmp;

```

```

}
for (i = 0; max; i++)
    max /= 2;
printf("%d\n",i);
}
EOCP
if $cc -o try try.c >/dev/null 2>&1 ; then
    dflt=`try`
else
    dflt=?
echo "(I can't seem to compile the test program...)"
fi
;;
*)
    dflt="$nrandbits"
    ;;
esac
rp="How many bits does your $randfunc() function produce?"
./myread
nrandbits="$ans"
$rm -f try.c try
mrand="($randfunc() / (double) ((1 << $nrandbits) - 1))"
seedfunc="srand"
;;
?X: The following is provided just in case...
*)
    dflt="31"
    rp="How many bits does your $randfunc() function produce?"
    ./myread
    nrandbits="$ans"
    seedfunc="s$randfunc"
    mrand="($randfunc()
/ (double) ((1 << $nrandbits) - 1))"
    if set $seedfunc val -f; eval $csym; $val; then
        echo "(Using $seedfunc() to seed random generator)"
    else
        echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
    fi
    ;;
esac
done

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/randfunc.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \

Setprefixvar prefix siteprefix man1dir sed

?MAKE: -pick add \$@ %<

?Y:TOP

?D:siteman1dir="

?S:siteman1dir:

?S: This variable contains the name of the directory in which site-specific

?S: manual source pages are to be put. It is the responsibility of the

?S: Makefile.SH to get the value of this into the proper command.

?S: You must be prepared to do the ~name expansion yourself.

?S: The standard distribution will put nothing in this directory.

?S: After perl

has been installed, users may install their own local

?S: man1 pages in this directory with

?S: MakeMaker Makefile.PL

?S: or equivalent. See INSTALL for details.

?S:.

?D:siteman1direxp="

?S:siteman1direxp:

?S: This variable is the same as the siteman1dir variable, but is filename

?S: expanded at configuration time, for convenient use in makefiles.

?S:.

?D:installsiteman1dir="

?S:installsiteman1dir:

?S: This variable is really the same as siteman1direxp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: man1direxp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installsiteman1dir

?LINT:set siteman1dir

?LINT:set siteman1direxp

: determine where add-on manual pages go

case "\$siteman1dir" in

") dflt=`echo \$man1dir | \$sed "s#^\$prefix#siteprefix#"` ;;

```

*) dflt=${siteman1dir} ;;
esac
case "$dflt" in
'|' ) dflt=none ;;
esac
fn=dn+~
rp='Pathname
where the site-specific manual pages should be installed?'
./getfile
prefixvar=siteman1dir
./setprefixvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/siteman1dir.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_ustat.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_ustat: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_ustat:

?S: This variable conditionally defines the I\_USTAT symbol, and indicates

?S: whether a C program should include <ustat.h>.

?S:.

?C:I\_USTAT:

?C: This symbol, if defined, indicates that <ustat.h> exists and

?C: should be included.

?C:.

?H:#\$i\_ustat I\_USTAT /\*\*/

?H:.

?LINT:set i\_ustat

: see if this is a ustat.h system

set ustat.h i\_ustat

eval \$inhdr

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_ustat.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_neterno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: i\_neterrno.U,v \$

?RCS: Revision 3.0.1.3 1994/10/29 16:20:29 ram

?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/08/29 16:22:10 ram

?RCS: patch32: removed spurious echo

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 07:02:05 ram

?RCS: patch30: created by ADO

?RCS:

?MAKE:i\_neterrno: Inhdr +cc +ccflags rm\_try Setvar

?MAKE: -pick  
add \$@ %<

?S:i\_neterrno:

?S: This variable conditionally defines the I\_NET\_ERRNO symbol, which  
?S: indicates to the C program that <net/errno.h> exists and should  
?S: be included.

?S:.

?C:I\_NET\_ERRNO:

?C: This symbol, if defined, indicates that <net/errno.h> exists and  
?C: should be included.

?C:.

?H:#\$i\_neterrno I\_NET\_ERRNO /\*\*/  
?H:.

?LINT:set i\_neterrno  
: see if net/errno.h is available  
val="  
set net/errno.h val  
eval \$inhdr

: Unfortunately, it causes problems on some systems. Arrgh.  
case "\$val" in  
\$define)  
cat > try.c <<'EOM'  
#include <stdio.h>  
#include <errno.h>  
#include <net/errno.h>  
int func()

```

{
return ENOTSOCK;
}
EOM
if $cc $cflags -c try.c >/dev/null 2>&1; then
echo "We'll be including <net/errno.h>." >&4
else
echo "We won't be including <net/errno.h>." >&4
val="$undef"
fi
$rm_try
;;
esac
set i_netermno
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_netermno.U

```

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?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nearbyint:

?S: This variable conditionally defines HAS\_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS\_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d\_nearbyint HAS\_NEARBYINT /\*\*/

?H:.

?LINT:set d\_nearbyint

: see if nearbyint exists

set nearbyint d\_nearbyint

eval \$inlibc

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_nearbyint.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 16:30:04 ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:07:02 ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
dflt='sl'
else
dflt='so'
fi
;;
*) dflt="$so";;
esac
$cat <<EOM

```

On some systems, shared libraries may be available. Answer 'none' if you want to suppress searching of shared libraries for the remainder of this configuration.

```

EOM
rp='What is the file extension used for shared libraries?'

```



```
./myread
so="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/so.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:48:23 ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
?S:
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
?C:
?H:#$i_locale I_LOCALE /**/
?H:
?LINT:set
i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_locale.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
```

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: nblock\_io.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:17:14 ram

?RCS: patch61: simplify here document for shells that can't handle them well

?RCS: patch61: force use of "startsh" at the head of the generated script

?RCS: patch61: added new files to the ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.1 1995/07/25 14:13:22 ram

?RCS: patch56: created

?RCS:

?X:

?X: Simplify here document for shells that can't handle them well.

?X: (Problem reported on FreeBSD;  
it's unclear if this helps.) --AD

?X:

?MAKE:o\_nonblock eagain rd\_nodata d\_eofnblk: cat rm\_try Compile run \  
d\_open3 h\_sysfile h\_fcntl signal\_t hint Oldconfig Setvar \  
startsh i\_unistd i\_fcntl i\_stdlib d\_fork d\_pipe d\_alarm

?MAKE: -pick add \$@ %<

?S:o\_nonblock:

?S: This variable bears the symbol value to be used during open() or fcntl()  
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch  
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,  
?S: but that is only supported by some devices.

?S:.

?S:eagain:

?S: This variable bears the symbolic errno code set by read() when no  
?S: data is present on the file and non-blocking I/O was enabled (otherwise,  
?S: read() blocks naturally).

?S:.

?S:rd\_nodata:

?S: This variable holds the return code from read() when no data is  
?S: present. It should be -1, but some systems return 0 when O\_NDELAY is  
?S: used, which is a shame because you cannot make the difference between  
?S: no data and an EOF.. Sigh!

?S:.

?S:d\_eofnblk:

?S: This  
variable conditionally defines EOF\_NONBLOCK if EOF can be seen  
?S: when reading from a non-blocking I/O source.

?S:.

?C:VAL\_O\_NONBLOCK:

?C: This symbol is to be used during open() or fcntl(F\_SETFL) to turn on

?C: non-blocking I/O for the file descriptor. Note that there is no way

?C: back, i.e. you cannot turn it blocking again this way. If you wish to

?C: alternatively switch between blocking and non-blocking, use the

?C: ioctl(FIONBIO) call instead, but that is not supported by all devices.

?C:.

?C:VAL\_EAGAIN:

?C: This symbol holds the errno error code set by read() when no data was

?C: present on the non-blocking file descriptor.

?C:.

?C:RD\_NODATA:

?C: This symbol holds the return code from read() when no data is present

?C: on the non-blocking file descriptor. Be careful! If EOF\_NONBLOCK is

?C: not defined, then you can't distinguish between no data and EOF by

?C: issuing a read(). You'll have to find another way to tell for sure!

?C:.

?C:EOF\_NONBLOCK:

?C: This

symbol, if defined, indicates to the C program that a read() on

?C: a non-blocking file descriptor will return 0 on EOF, and not the value

?C: held in RD\_NODATA (-1 usually, in that case!).

?C:.

?H:#define VAL\_O\_NONBLOCK \$o\_nonblock

?H:#define VAL\_EAGAIN \$eagain

?H:#define RD\_NODATA \$rd\_nodata

?H:#\$d\_eofnblk EOF\_NONBLOCK

?H:.

?T:status

?F:!try.out !try.ret !try.err !try !mtry

?LINT:use d\_open3

: check for non-blocking I/O stuff

case "\$h\_sysfile" in

true) echo "#include <sys/file.h>" > head.c;;

\*)

case "\$h\_fcntl" in

true) echo "#include <fcntl.h>" > head.c;;

\*) echo "#include <sys/fcntl.h>" > head.c;;

esac

::

esac

echo " "

echo "Figuring out the flag used by open() for non-blocking I/O..." >&4

case "\$o\_nonblock" in

")

\$cat head.c > try.c

\$cat >>try.c <<EOCP

#include <stdio.h>

```

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
int main() {
#ifdef O_NONBLOCK
printf("O_NONBLOCK\n");
exit(0);
#endif
#ifdef
O_NDELAY
printf("O_NDELAY\n");
exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
printf("FNDELAY\n");
exit(0);
#endif
exit(0);
}
EOCP
set try
if eval $compile_ok; then
o_nonblock=`$run ./try`
case "$o_nonblock" in
") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
*) echo "Seems like we can use $o_nonblock.";;
esac
else
echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
fi
;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$$again" in
")
case "$d_fork:$d_pipe:$d_alarm" in
define:define:define)

```

```

$cat head.c > try.c
$cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#ifdef _stdlib
#include <stdlib.h>
#endif
#ifdef _fcntl
#include <fcntl.h>
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifdef errno /* XXX need better Configure test */
extern int errno;
#endif
#ifdef _unistd
#include <unistd.h>
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
$cat >> try.c <<'EOCP'
int main()
{
int pd[2];
int pu[2];
char buf[1];
char string[100];
int ret;

ret = pipe(pd); /* Down: child -> parent */
if (ret != 0)
exit(3);
ret = pipe(pu); /* Up: parent -> child */
if (ret != 0)
exit(3);
if (0 != fork()) {
close(pd[1]); /* Parent reads from pd[0] */
close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
exit(1);
#endif
#else

```

```

    exit(4);
#endif
    signal(SIGALRM, blech);
    alarm(5);
    if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
        exit(2);
    sprintf(string, "%d\n", ret);
    ret = write(2, string, strlen(string));
    if (ret != strlen(string))
        exit(3);
    alarm(0);
#ifdef
EAGAIN
    if (errno == EAGAIN) {
        printf("EAGAIN\n");
        goto ok;
    }
#endif
#ifdef EWOULDBLOCK
    if (errno == EWOULDBLOCK)
        printf("EWOULDBLOCK\n");
#endif
ok:
    ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
    if (ret != 1)
        exit(3);
    sleep(2); /* Give it time to close our pipe */
    alarm(5);
    ret = read(pd[0], buf, 1); /* Should read EOF */
    alarm(0);
    sprintf(string, "%d\n", ret);
    ret = write(4, string, strlen(string));
    if (ret != strlen(string))
        exit(3);
    exit(0);
}

close(pd[0]); /* We write to pd[1] */
close(pu[1]); /* We read from pu[0] */
ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
if (ret != 1)
    exit(3);
close(pd[1]); /* Pipe pd is now fully closed! */
exit(0); /* Bye bye, thank you for playing! */
}
EOCP
set try
if eval $compile_ok; then

```

```

?X: Use script to avoid the possible 'alarm call' message
echo "$startsh" >mtry
echo "$run ./try >try.out 2>try.ret 4>try.err
|| exit 4" >>mtry
chmod +x mtry
$run ./mtry >/dev/null 2>&1
case $? in
0) eagain=`$cat try.out`;
1) echo "Could not perform non-blocking setting!";;
2) echo "I did a successful read() for something that was not there!";;
3) echo "Hmm... non-blocking I/O does not seem to be working!";;
4) echo "Could not find F_SETFL!";;
*) echo "Something terribly wrong happened during testing.";;
esac
rd_nodata=`$cat try.ret`
echo "A read() system call with no data present returns $rd_nodata."
case "$rd_nodata" in
0|-1) ;;
*)
echo "(That's peculiar, fixing that to be -1.)"
rd_nodata=-1
;;
esac
case "$eagain" in
")
echo "Forcing errno EAGAIN on read() with no data available."
eagain=EAGAIN
;;
*)
echo "Your read() sets errno to $eagain when no data is available."
;;
esac
status=`$cat try.err`
case "$status" in
0) echo "And it correctly returns 0 to signal EOF.";;
-1) echo "But it also returns -1 to signal EOF, so be careful!";;
*)
echo "However, your read() returns '$status' on EOF??";;
esac
val="$define"
if test "$status" = "$rd_nodata"; then
echo "WARNING: you can't distinguish between EOF and no data!"
val="$undef"
fi
else
echo "I can't compile the test program--assuming errno EAGAIN will do."
eagain=EAGAIN
fi

```

```

;;
*) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
eagain=EAGAIN
val="$define"
;;
esac
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
echo "Your read() returns $rd_nodata when no data is present."
case "$d_eofnblk" in
"$define") echo "And you can see EOF because read() returns 0.>";;
"$undef") echo "But you can't see EOF status from read() returned value.>";;
*)
?X: Should not happen, but if it does, assume the worst!
echo "(Assuming you can't see EOF status from read anyway.)"
d_eofnblk=$undef
;;
esac
;;
esac
$rm_try head.c mtry

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/nblock_io.U

```

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?RCS:

?MAKE:uidsize: Myread Typedef uidtype Compile run i\_stdlib

?MAKE: -pick add \$@ %<

?S:uidsize:

?S: This variable contains the size of a uidtype in bytes.

?S:.

?C:Uid\_t\_size:

?C: This symbol holds the size of a Uid\_t in bytes.

?C:.

?H:#define Uid\_t\_size \$uidsize /\* UID size \*/



```

?H:
?T:yyy zzz
?F:!try
: Check size of UID
echo " "
case "$suidtype" in
*_t) zzz="$suidtype" ;;
*) zzz="uid" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#ifdef I_STDLIB
#include
<stdlib.h>
#endif
int main() {
    printf("%d\n", (int)sizeof($suidtype));
    exit(0);
}
EOCP
set try
if eval $compile_ok; then
    yyy=`$run ./try`
    case "$yyy" in
    *) uidsize=4
        echo "(I can't execute the test program--guessing $suidsize.)" >&4
        ;;
    *) uidsize=$yyy
        echo "Your $zzz is $suidsize bytes long."
        ;;
    esac
else
    uidsize=4
    echo "(I can't compile the test program--guessing $suidsize.)" >&4
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/uidsize.U

```

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_memchr.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:32 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_memchr: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_memchr:  
?S: This variable conditionally defines the HAS\_MEMCHR symbol, which  
?S: indicates to the C program that the memchr() routine is available  
?S: to scan a block of memory for a character.  
?S:.  
?C:HAS\_MEMCHR:  
?C: This symbol, if defined, indicates that the memchr routine is available  
?C: to scan a block of memory for a character.  
If undefined, roll your own.  
?C:.  
?H:#\$d\_memchr HAS\_MEMCHR /\*\*/  
?H:.  
?LINT:set d\_memchr  
: see if memchr exists  
set memchr d\_memchr  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_memchr.U

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: charorder.U,v \$  
?RCS: Revision 3.0.1.1 1994/10/29 16:07:08 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:05:33 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
(charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
?F:!byteorder
:
check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
int argc;
char *argv[]; {
int i;
int max;
union {

```

```

short u_s;
int u_i;
long u_l;
char u_c[sizeof(long)];
} u;
switch (argv[1][0]) {
case 'l':
u.u_l = 0L;
/* HMS: ASSERT: sizeof(long) < 10. */
for(i = 0; i < sizeof(long); ++i) {
u.u_l *= 0x100L;
u.u_l += (0xc0 + i);
}
max = sizeof(long);
break;
case 's':
u.u_s = 0;
/* HMS: ASSERT: sizeof(short) < 10. */
for(i = 0; i < sizeof(short); ++i) {
u.u_s *= 0x100L;
u.u_s += (0xc0 + i);
}
max = sizeof(short);
break;
case 'i':
u.u_i = 0;
/* RAM: ASSERT: sizeof(int) < 10. */
for(i = 0; i < sizeof(int); ++i) {
u.u_l *= 0x100L;
u.u_l += (0xc0 + i);
}
max = sizeof(int);
break;
default:
max = 0;
break;
}
for(i = 0; i < max; i++) {
printf("%x", u.u_c[i] & 0x00FF);
}
printf("\n");
exit(0);
}
EOCP
if $cc $ccflags -o
byteorder byteorder.c >/dev/null 2>&1 ; then
: null statement
@if chorder_short

```

```

    chorder_short=`./byteorder s`
@end
@if chorder_int
    chorder_int=`./byteorder i`
@end
@if chorder_long
    chorder_long=`./byteorder l`
@end
else
$cat <<EOM
(I can't seem to get my test program to work. Guessing 32 bits big-endian.)
EOM
    chorder_short="c0c1"
    chorder_int="c0c1c2c3"
    chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
./myread
chorder_long="$ans"
@end
$rm -f byteorder* core

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/charorder.U
```

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?RCS:

?MAKE:d\_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_remainder:

?S: This variable conditionally defines the HAS\_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS\_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d\_remainder HAS\_REMAINDER /\*\*/

?H:.

?LINT:set d\_remainder

: see if remainder exists

set remainder d\_remainder

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_remainder.U

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?RCS: \$Id: i\_unistd.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: i\_unistd.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:46 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:i\_unistd: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_unistd:

?S: This variable conditionally defines the I\_UNISTD symbol, and indicates

?S: whether a C program should include <unistd.h>.

?S:.

?C:I\_UNISTD:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <unistd.h>.

?C:.

?H:#\$i\_unistd I\_UNISTD /\*\*/

?H:.

?LINT:set

i\_unistd

: see if this is a unistd.h system

set unistd.h i\_unistd

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_unistd.U

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?RCS:

?MAKE:d\_mkostemp: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_mkostemp:

?S: This variable conditionally defines HAS\_MKOSTEMP if mkostemp() is

?S: available to exclusively create and open a uniquely named (with a

?S: suffix) temporary file.

?S:.

?C:HAS\_MKOSTEMP:

?C: This symbol, if defined, indicates that the mkostemp routine is

?C: available to exclusively create and open a uniquely named (with a

?C: suffix) temporary file.

?C:.

?H:#\$d\_mkostemp HAS\_MKOSTEMP /\*\*/

?H:.

?LINT:set d\_mkostemp

: see if mkostemp exists

set mkostemp d\_mkostemp

eval \$inlibc

Found

in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_mkostemp.U

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?RCS: \$Id: ssize\_t.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp \$

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?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: ssize\_t.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 16:24:21 ram

?RCS: patch61: integrated perl5 concerns for mis-configured sfio

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:30:28 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:33:06 ram

?RCS: patch32: created

by ADO

?RCS:

?MAKE:ssize\_t: Myread Typedef size\_t cat rm\_try Compile run i\_stdlib

?MAKE: -pick add \$@ %<

?S:ssize\_t:

?S: This variable defines ssize\_t to be something like ssize\_t,

?S: long or int. It is used by functions that return a count

?S: of bytes or an error condition. It must be a signed type.

?S: We will pick a type such that sizeof(SSize\_t) == sizeof(Size\_t).

?S:.

?C:SSize\_t:

?C: This symbol holds the type used by functions that return

?C: a count of bytes or an error condition. It must be a signed type.

?C: It is usually ssize\_t, but may be long or int, etc.

?C: It may be necessary to include <sys/types.h> or <unistd.h>

?C: to get any typedef'ed information.

?C: We will pick a type such that sizeof(SSize\_t) == sizeof(Size\_t).

?C:.

?H:#define SSize\_t \$ssize\_t /\* signed count of bytes \*/

?H:.

?F:!try

: see what type is used for signed size\_t

set ssize\_t ssize\_t int stdio.h sys/types.h

eval \$typedef

dflt="\$ssize\_t"

?X: Now check out whether sizeof(SSize\_t)

== sizeof(Size\_t)

\$cat > try.c <<EOM

#include <stdio.h>

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include <stdlib.h>

#endif

#include <sys/types.h>



```

#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
if (sizeof(Size_t) == sizeof(SSize_t))
printf("$dflt\n");
else if (sizeof(Size_t) == sizeof(int))
printf("int\n");
else
printf("long\n");
exit(0);
}
EOM
echo " "
set try
if eval $compile_ok && $run ./try > /dev/null; then
ssizetype=`$run ./try`
echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
$cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it. Still, I'll try anyway.)

```

I need a type that is the same size as \$sizetype, but is guaranteed to be signed. Common values are ssize\_t, int and long.

```

EOM
rp="What signed type is the same size as $sizetype?"
./myread
ssizetype="$ans"
fi
$rm_try

```

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/ssizetype.U

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?RCS: \$Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:  
?RCS: \$Log: Getfile.U,v \$  
?RCS: Revision 3.0.1.7 1997/02/28 15:01:06 ram  
?RCS: patch61: getfile script now begins with "startsh"  
?RCS:  
?RCS: Revision 3.0.1.6 1995/02/15 14:11:00 ram  
?RCS: patch51: was not working if ~'s allowed with d\_portable on (WED)  
?RCS:  
?RCS: Revision 3.0.1.5 1995/01/11 15:11:25 ram  
?RCS: patch45: added support for escaping answers to skip various checks  
?RCS: patch45: modified message issued after file expansion  
?RCS:  
?RCS: Revision  
3.0.1.4 1994/10/29 15:53:19 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0.1.3 1994/05/06 14:23:36 ram  
?RCS: patch23: getfile could be confused by file name in "locate" requests  
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/01/24 14:01:31 ram  
?RCS: patch16: added metalint hint on changed 'ans' variable  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 15:46:27 ram  
?RCS: patch10: minor format problems and misspellings fixed  
?RCS: patch10: now performs from package dir and not from UU subdir  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:56 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit produces a bit of shell code that must be dotted in in order  
?X: to get a file name and make some sanity checks. Optionally, a ~name  
?X: expansion is performed.  
?X:  
?X: To use this unit, \$rp and \$dflt must hold the question and the  
?X: default answer, which will be passed as-is  
to the myread script.  
?X: The \$fn variable must hold the file type (f or d, for file/directory).  
?X: If \$gfpth is set to a list of space-separated list of directories,  
?X: those are prefixes for the filename. Unless \$gfpthkeep is set to 'y',  
?X: gfpth is cleared on return from Getfile.  
?X:  
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,  
?X: \$ans is set with the filename value. If a / is specified, then only a full  
?X: path name is accepted (but ~ substitution occurs before, if needed). The  
?X: expanded path name is returned in that case.

?X:

?X: If a + is specified, the existence checks are skipped. This usually means

?X: the file/directory is under the full control of the program.

?X:

?X: If the 'n' (none) type is used, then the user may answer none.

?X: The 'e' (expand) switch may be used to bypass d\_portable, expanding ~name.

?X:

?X: If the 'l' (locate) type is used, then it must end with a ':' and then a

?X: file name. If the answer is a directory,

the file name will be appended

?X: before testing for file existence. This is useful in locate-style

?X: questions like "where is the active file?". In that case, one should

?X: use:

?X:

?X: dflt='~news/lib'

?X: fn='l~:active'

?X: rp='Where is the active file?'

?X: ./getfile

?X: active="\$ans"

?X:

?X: If the 'p' (path) letter is specified along with 'l', then an answer

?X: without a leading / will be expected to be found in everyone's path.

?X:

?X: It is also possible to include a comma-separated list of items within

?X: parentheses to specify which items should be accepted as-is with no

?X: further checks. This is useful when for instance a full path is expected

?X: but the user may escape out via "magical" answers.

?X:

?X: If the answer to the question is 'none', then the existence checks are

?X: skipped and the empty string is returned.

?X:

?MAKE:Getfile: d\_portable contains startsh Myread Filexp tr trnl

?MAKE: -pick add \$@ %<

?V:ansexp:fn gfpth gfpthkeep

?F:./getfile

?T:tilde

type what orig\_rp orig\_dflt fullpath already redo skip none\_ok \  
value exp\_file nopath\_ok loc\_file fp pf dir direxp

?LINT:change ans

?LINT:change gfpth

: now set up to get a file name

cat <<EOS >getfile

\$startsh

EOS

cat <<'EOSC' >>getfile

tilde="

fullpath="

already="

```

skip="
none_ok="
exp_file="
nopath_ok="
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
") gfpth='.' ;;
esac

```

?X: Begin by stripping out any (...) grouping.

```

case "$fn" in
*\(*)
: getfile will accept an answer from the comma-separated list
: enclosed in parentheses even if it does not meet other criteria.
expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
fn=`echo $fn | sed 's/(.*)/^'`
;;
esac

```

?X: Catch up 'locate' requests early, so that we may strip the file name

?X: before looking at the one-letter commands, in case the file name contains

?X: one of them. Reported by Wayne Davison <davison@borland.com>.

```

case "$fn" in
*.*)
loc_file=`expr $fn : '.*:(.*)'`
fn=`expr $fn : '\(.*\):.*'`
;;
esac

```

```

case
"$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
*+*) skip=true;;
esac
case "$fn" in
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;

```

```

esac

case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
")
case "$d_portable" in
"$define") ;;
*) exp_file=true;;
esac
;;
esac

cd ..
while test "$type"; do
redo="
rp="$orig_rp"
dflt="$orig_dflt"
case "$tilde" in
true) rp="$Rp (~name ok)";;
esac
. UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
if test -f UU/getfile.ok && \
  $contains "^$ans$" UU/getfile.ok >/dev/null 2>&1
then
value="$ans"
ansexp="$ans"
break
fi
case "$ans" in
none)
value="
ansexp="
case "$none_ok" in
true) type="";;
esac
;;
*)

```

```

case "$tilde" in
") value="$ans"
  ansexp="$ans";;
*)
  value=`UU/filexp $ans`
  case
$? in
  0)
    if test "$ans" != "$value"; then
      echo "(That expands to $value on this system.)"
    fi
    ;;
  *) value="$ans";;
esac
ansexp="$value"
case "$exp_file" in
") value="$ans";;
esac
;;
esac
case "$fullpath" in
true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
  case "$sansexp" in
  /*) value="$sansexp" ;;
?X: Allow for c:/some/path
  [a-zA-Z]/*) value="$sansexp" ;;
  *)
    redo=true
    case "$already" in
    true)
      echo "I shall only accept a full path name, as in /bin/lis." >&4
      echo "Use a ! shell escape if you wish to check pathnames." >&4
      ;;
    *)
      echo "Please give a full path name, starting with slash." >&4
      case "$tilde"
in
  true)
    echo "Note that using ~name is ok provided it expands well." >&4
    already=true
    ;;
  esac
esac

```

```

;;
esac
;;
esac
case "$redo" in
")
case "$type" in
File)
for fp in $gfpth; do
if test "X$fp" = X.; then
pf="$ansexp"
else
pf="$fp/$ansexp"
fi
if test -f "$pf"; then
type="
elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
then
echo "($value is not a plain file, but that's ok.)"
type="
fi
if test X"$type" = X; then
value="$pf"
break
fi
done
;;
Directory)
for fp in $gfpth; do
if test "X$fp" = X.; then
dir="$ans"
direxp="$ansexp"
else
dir="$fp/$ansexp"
direxp="$fp/$ansexp"
fi
if test -d "$direxp"; then
type="
value="$dir"
break
fi
done
;;
Locate)
if test -d "$ansexp"; then
echo "(Looking for $loc_file in directory
$value.)"
value="$value/$loc_file"

```

```

    ansexp="$ansexp/$loc_file"
fi
if test -f "$ansexp"; then
    type="
fi
case "$nopath_ok" in
true) case "$value" in
    /*) ;;
    *) echo "Assuming $value will be in people's path."
        type="
        ;;
    esac
    ;;
esac
;;
esac
;;
esac
;;
esac

case "$skip" in
true) type=";
esac

case "$type" in
") ;;
*)
if test "$fastread" = yes; then
    dflt=y
else
    dflt=n
fi
rp="$what $value doesn't exist. Use that name anyway?"
. UU/myread
dflt="
case "$ans" in
y*) type=";;
*) echo " ";;
esac
;;
esac
;;
esac
;;
esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok

```



test "X\$gfpthkeep" != Xy && gfpth=""

EOSC

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Getfile.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_mkdtemp: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_mkdtemp:

?S: This variable conditionally defines the HAS\_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtemp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS\_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtemp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d\_mkdtemp HAS\_MKDTEMP /\*\*/

?H:.

?LINT:set d\_mkdtemp

: see if mkdtemp exists

set mkdtemp d\_mkdtemp

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_mkdtemp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_setsent.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:09 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_setsent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_setsent:  
?S: This variable conditionally defines HAS\_SETSERVENT if setservernt() is  
?S: available.  
?S:.  
?C:HAS\_SETSERVENT:  
?C: This symbol, if defined, indicates that the setservernt() routine is  
?C: available.  
?C:.  
?H:#\$d\_setsent HAS\_SETSERVENT /\*\*/  
?H:.  
?LINT:set d\_setsent  
: see if setservernt exists  
set  
  setservernt d\_setsent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_setsent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: lib.U,v \$  
?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram  
?RCS: patch49: can now handle installation prefix changes (from WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram  
?RCS: patch32: now uses installation prefix to set the default  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:56 ram

```

?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question. It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . ." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*) dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. /getfile
?X:lib="$ans"
?X:libexp="$ansexp"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/nullified/lib.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_gethbynm.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:08 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_gethbyname: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_gethbyname (d\_gethbynm d\_gethstby):  
?S: This variable conditionally defines the HAS\_GETHOSTBYNAME symbol, which  
?S: indicates to the C program that the gethostbyname() routine is available  
?S: to look up host names in some data base or other.  
?S:.  
?C:HAS\_GETHOSTBYNAME (GETHOSTBYNAME):  
?C: This  
symbol, if defined, indicates that the gethostbyname() routine is  
?C: available to look up host names in some data base or other.  
?C:.  
?H:#\$d\_gethbyname HAS\_GETHOSTBYNAME /\*\*/  
?H:.  
?LINT:set d\_gethbyname  
: see if gethostbyname exists  
set gethostbyname d\_gethbyname  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_gethbynm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_fork.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_fork.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:07:38 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_fork: Inlibc  
?MAKE: -pick add \$@ %<

?S:d\_fork:

?S: This variable conditionally defines the HAS\_FORK symbol, which

?S: indicates to the C program that the fork() routine is available.

?S:.

?C:HAS\_FORK :

?C: This symbol, if defined, indicates that the fork routine is

?C: available.

?C:.

?H:#\$d\_fork

HAS\_FORK /\*\*/

?H:.

?LINT:set d\_fork

: see if fork exists

set fork d\_fork

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_fork.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: d\_setreuid.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:13 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_setreuid d\_setresuid: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setreuid:

?S: This variable conditionally defines HAS\_SETREUID if setreuid() is

?S: available to change the real and effective uid of the current

?S: process.

?S:.

?S:d\_setresuid:

?S: This variable conditionally defines HAS\_SETREUID if setresuid() is

?S: available to change

the real, effective and saved uid of the current

?S: process.

?S:.

?C:HAS\_SETREUID (SETREUID):

?C: This symbol, if defined, indicates that the setreuid routine is

?C: available to change the real and effective uid of the current

?C: process.

?C:.

?C:HAS\_SETRESUID (SETRESUID):

?C: This symbol, if defined, indicates that the setresuid routine is

?C: available to change the real, effective and saved uid of the current

?C: process.

?C:.

?H:#\$d\_setreuid HAS\_SETREUID /\*\*/

?H:#\$d\_setresuid HAS\_SETRESUID /\*\*/

?H:.

?LINT:set d\_setreuid d\_setresuid

: see if setreuid exists

set setreuid d\_setreuid

eval \$inlibc

set setresuid d\_setresuid

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_setreuid.U

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?RCS: \$Id: d\_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_fchmod.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:59 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_fchmod: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fchmod:

?S: This variable conditionally defines the HAS\_FCHMOD symbol, which

?S: indicates to the C program that the fchmod() routine is available

?S: to change mode of opened files.

?S:.

?C:HAS\_FCHMOD (FCHMOD):

?C: This symbol, if defined, indicates that the fchmod routine is available

?C: to  
change mode of opened files. If unavailable, use chmod().

?C:.

?H:#\$d\_fchmod HAS\_FCHMOD /\*\*/

?H:.

?LINT:set d\_fchmod

: see if fchmod exists

set fchmod d\_fchmod

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_fchmod.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setitimer:

?S: This variable conditionally defines the HAS\_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS\_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.

?H:#\$d\_setitimer HAS\_SETITIMER /\*\*/

?H:.

?LINT:set d\_setitimer

: see if setitimer exists

set setitimer d\_setitimer

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_setitimer.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_getfsstat : Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_getfsstat:  
?S: This variable conditionally defines the HAS\_GETFSSTAT symbol, which  
?S: indicates to the C program that the getfsstat() routine is available.  
?S:.  
?C:HAS\_GETFSSTAT:  
?C: This symbol, if defined, indicates that the getfsstat routine is  
?C: available to stat filesystems in bulk.  
?C:.  
?H:#\$d\_getfsstat HAS\_GETFSSTAT /\*\*/  
?H:.  
?LINT:set d\_getfsstat  
: see if getfsstat exists  
set getfsstat d\_getfsstat  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_getfsstat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_mkstemp: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mkstemp:  
?S: This variable conditionally defines the HAS\_MKSTEMPS symbol, which  
?S: indicates to the C program that the mkstemp() routine is available  
?S: to exclusively create and open a uniquely named (with a suffix)  
?S: temporary file.  
?S:.  
?C:HAS\_MKSTEMPS :  
?C: This symbol, if defined, indicates that the mkstemp routine is  
?C: available to exclusively create and open a uniquely named  
?C: (with a suffix) temporary file.  
?C:.  
?H:#\$d\_mkstemp HAS\_MKSTEMPS /\*\*/  
?H:.  
?LINT:set d\_mkstemp



```
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_mkstemps.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: You may reuse parts of this distribution only within the terms of
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```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_mbtowc.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:06:30 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_mbtowc: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_mbtowc:
```

```
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
```

```
?S: indicates to the C program that the mbtowc() routine is available
```

```
?S: to convert multibyte to a wide character.
```

```
?S:.
```

```
?C:HAS_MBTOWC (MBTOWC):
```

```
?C: This symbol, if defined, indicates that the mbtowc routine is available
```

```
?C: to
```

```
convert a multibyte to a wide character.
```

```
?C:.
```

```
?H:#$d_mbtowc HAS_MBTOWC /**/
```

```
?H:.
```

```
?LINT:set d_mbtowc
```

```
: see if mbtowc exists
```

```
set mbtowc d_mbtowc
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_mbtowc.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcsetgrp.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:12:11 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcsetgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
:
?C: This symbol, if defined, indicates that the tcsetgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetgrp HAS_TCSETPGRP /**/
?H:.
?LINT:set d_tcsetgrp
: see if tcsetgrp exists
set tcsetgrp d_tcsetgrp
eval $inlibc

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_tcsetgrp.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

```

?RCS:  
?RCS: \$Log: d\_symlink.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:41 ram  
?RCS: Baseline for dist 3.0 worldwide release.  
?RCS:  
?MAKE:d\_symlink: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_symlink:  
?S: This variable conditionally defines the HAS\_SYMLINK symbol, which  
?S: indicates to the C program that the symlink() routine is available  
?S: to create symbolic links.  
?S:.  
?C:HAS\_SYMLINK (SYMLINK):  
?C: This symbol, if defined, indicates that the symlink routine is available  
?C: to  
create symbolic links.  
?C:.  
?H:#\$d\_symlink HAS\_SYMLINK /\*\*/  
?H:.  
?LINT:set d\_symlink  
: see if symlink exists  
set symlink d\_symlink  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_symlink.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getnetprotos.U,v \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_getnetprotos : Hasproto i\_netdb  
?MAKE: -pick add \$@ %<  
?S:d\_getnetprotos:  
?S: This variable conditionally defines the HAS\_GETNET\_PROTOS symbol,  
?S: which indicates to the C program that <netdb.h> supplies  
?S: prototypes for the various getnet\*() functions.  
?S: See also netdbtype.U for probing for various netdb types.  
?S:.  
?C:HAS\_GETNET\_PROTOS:

?C: This symbol, if defined, indicates that <netdb.h> includes  
?C: prototypes for getnetent(), getnetbyname(), and  
?C: getnetbyaddr(). Otherwise,  
it is up to the program to guess  
?C: them. See netdbtype.U for probing for various Netdb\_xxx\_t types.  
?C:.  
?H:#\$d\_getnetprotos HAS\_GETNET\_PROTOS /\*\*/  
?H:.  
?LINT:set d\_getnetprotos  
: see if prototypes for various getnetxxx netdb.h functions are available  
echo " "  
set d\_getnetprotos getnetent \$i\_netdb netdb.h  
eval \$hasproto

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/d\_getnetprotos.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llround:

?S: This variable conditionally defines the HAS\_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS\_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d\_llround HAS\_LLROUND /\*\*/  
?H:.

?LINT:set d\_llround

: see if llround exists

set llround d\_llround

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_llround.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_nextafter: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_nextafter:  
?S: This variable conditionally defines HAS\_NEXTAFTER if nextafter()  
?S: is available to return the next machine representable double from  
?S: x in direction y.  
?S:.  
?C:HAS\_NEXTAFTER:  
?C: This symbol, if defined, indicates that the nextafter routine is  
?C: available to return the next machine representable double from  
?C: x in direction y.  
?C:.  
?H:#\$d\_nextafter HAS\_NEXTAFTER /\*\*/  
?H:.  
?LINT:set d\_nextafter  
: see if nextafter exists  
set nextafter d\_nextafter  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_nextafter.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_getpgrp.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:34:28 ram  
?RCS: patch61: new USE\_BSD\_GETPGRP to detect the getpgrp() flavor  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:06:15 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_getpgrp d\_bsdgetpgrp: Guess Inlibc Setvar cat rm\_try \  
+cc +cflags +ldflags +libs i\_unistd i\_stdlib run  
?MAKE: -pick add \$@ %<  
?S:d\_getpgrp:  
?S: This variable conditionally defines HAS\_GETPGRP if getpgrp() is  
?S: available

to get the current process group.

?S:.

?S:d\_bsdgetpgrp:

?S: This variable conditionally defines USE\_BSD\_GETPGRP if

?S: getpgrp needs one arguments whereas USG one needs none.

?S:.

?C:HAS\_GETPGRP (GETPGRP):

?C: This symbol, if defined, indicates that the getpgrp routine is

?C: available to get the current process group.

?C:.

?C:USE\_BSD\_GETPGRP:

?C: This symbol, if defined, indicates that getpgrp needs one

?C: arguments whereas USG one needs none.

?C:.

?H:#\$d\_getpgrp HAS\_GETPGRP /\*\*/

?H:#\$d\_bsdgetpgrp USE\_BSD\_GETPGRP /\*\*/

?H:.

?T:xxx

?F:!try

?LINT:set d\_getpgrp d\_bsdgetpgrp

: see if getpgrp exists

set getpgrp d\_getpgrp

eval \$inlibc

@if USE\_BSD\_GETPGRP || d\_bsdgetpgrp

case "\$d\_getpgrp" in

"\$define")

echo " "

echo "Checking to see which flavor of getpgrp is in use..."

\$cat >try.c <<EOP

#include <stdio.h>

#\$i\_unistd I\_UNISTD

#include <sys/types.h>

#ifdef I\_UNISTD

# include <unistd.h>

#endif

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include <stdlib.h>

#endif

int main()

{

if (getuid()

== 0) {

printf("(I see you are running Configure as super-user...)\n");

setuid(1);

}

#ifdef TRY\_BSD\_PGRP

```

if (getpgrp(1) == 0)
    exit(0);
#else
if (getpgrp() > 0)
    exit(0);
#endif
exit(1);
}
EOP
if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
    echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
    val="$define"
elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
    echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
    val="$undef"
else
    echo "I can't seem to compile and run the test program."
    if ./usg; then
        xxx="a USG one, i.e. you use getpgrp()."
    else
        # SVR4 systems can appear rather BSD-ish.
        case "$i_unistd" in
            $undef)
                xxx="a BSD one, i.e. you use getpgrp(pid)."
                val="$define"
                ;;
            $define)
                xxx="probably a USG one, i.e. you use getpgrp()."
                val="$undef"
                ;;
        esac
    fi
    echo "Assuming your getpgrp is $xxx" >&4
    fi
    ;;
*) val="$undef";;
esac
set
d_bsdgetpgrp
eval $setvar
$rm_try
@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getpgrp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_sethent.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:09 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_sethent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_sethent:  
?S: This variable conditionally defines HAS\_SETHOSTENT if sethostent() is  
?S: available.  
?S:.  
?C:HAS\_SETHOSTENT:  
?C: This symbol, if defined, indicates that the sethostent() routine is  
?C: available.  
?C:.  
?H:#\$d\_sethent HAS\_SETHOSTENT /\*\*/  
?H:.  
?LINT:set d\_sethent  
: see if sethostent exists  
set  
sethostent d\_sethent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_sethent.U

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2012-2012, H.Merijn Brand  
?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: H.Merijn Brand  
?RCS:  
?MAKE:d\_isblank: cc cat ccflags ldflags rm libs Setvar



```

?MAKE: -pick add $@ %<
?S:d_isblank:
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
?C:.
?H:#$d_isblank HAS_ISBLANK /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
<stdio.h>
#include <ctype.h>
int main() {
int c = ' ';
if (isblank(c))
return 0 ;
else
return 1 ;
}
EOCP
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
echo "isblank() found." >&4
val="$define"
else
echo "isblank() NOT found." >&4
val="$undef"
fi
set d_isblank
eval $setvar
$rm -f isblank*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_isblank.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

?RCS:

```

```

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```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: cf\_name.U,v \$

?RCS: Revision 3.0.1.2 1994/05/06 14:29:36 ram

?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:05:11 ram

?RCS: patch16: created

?RCS:

?RCS:

?MAKE:+cf\_name: cf\_by passcat Filexp nametype cat test

?MAKE: -pick add \$@ %<

?S:cf\_name:

?S: Full name of the person who ran the Configure script and answered the

?S: questions. This can be used by units that require the user's full name.

?S: This variable is for internal use only.

?S:.

?T:xxx fn NAME

: figure out their full name

case "\$NAME" in

) case "\$nametype" in

other)

fn=`./filexp ~/.fullname`

xxx=usg

\$test -f \$fn && xxx=other

::

\*)

xxx="\$nametype"

::

esac

case "\$xxx" in

bsd)

cf\_name=`\$passcat | grep "^\$cf\_by:" | \

sed -e 's/^[^:]\*:[^:]\*:[^:]\*:[^:]\*:([^\:]\*):.\*\1/' \

-e 's/,.\*//'^

::

usg)

cf\_name=`\$passcat | grep "^\$cf\_by:" | \

sed -e 's/^[^:]\*:[^:]\*:[^:]\*:[^:]\*:([^\:]\*):.\*\1/' \

-e 's/[^-]\*-\(.\*\)(.\*)\1/'

::

```
*)
cf_name=`$cat $fn`
;;
esac
```

```
;;
*)
cf_name="$NAME"
;;
esac
```

?X:

?X: In the original unit, Graham asked for the user name, in case the above  
?X: code was unable to figure it out correctly. Since now cf\_name has been  
?X: made an internal variable only (i.e. it is not saved in config.sh), letting  
?X: the user override the computed default each time would be a pain.

?X:

Therefore, I have decided to trust the above code to get it right, and for  
?X: those rare cases where it will fail, too bad :-)--RAM.

?X:

```
echo " "
```

```
echo "Pleased to meet you, $cf_name."
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cf_name.U
```

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_tgamma: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_tgamma:

?S: This variable conditionally defines the HAS\_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d\_lgamma.

?S:.

?C:HAS\_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS\_LGAMMA.

?C:.

?H:#\$d\_tgamma HAS\_TGAMMA /\*\*/

?H:.

?LINT:set d\_tgamma

: see if tgamma exists

set tgamma d\_tgamma

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_tgamma.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: usrinc.U,v \$

?RCS: Revision 1.1 2000/06/27 00:20:28 jhi

?RCS: Initial revision

?RCS:

?RCS: Revision 3.0.1.3 1997/02/28 16:27:12 ram

?RCS: patch61: don't ask for the include path unless they are on a MIPS

?RCS:

?RCS: Revision 3.0.1.2 1995/05/12 12:24:36 ram

?RCS: patch54: ensure that ./mips always exists (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:18:31 ram

?RCS: patch23: ensure usrinc value is preserved across sessions (WED)

?RCS:

?RCS: Revision

3.0 1993/08/18 12:09:58 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:usrinc incpath mips\_type: test cat echo n c Getfile Guess \  
Oldconfig eunicefix contains rm sysroot cc

?MAKE: -pick add \$@ %<

?S:usrinc:

?S: This variable holds the path of the include files, which is

?S: usually /usr/include. It is mainly used by other Configure units.

?S:.

?S:incpath:

?S: This variable must precede the normal include path to get the

?S: right one, as in "\$incpath/usr/include" or "\$incpath/usr/lib".

?S: Value can be "" or "/bsd43" on mips.

?S:.

?S:mips\_type:

?S: This variable holds the environment type for the mips system.

?S: Possible values are "BSD 4.3" and "System V".

?S:.

?D:usrinc='/usr/include'

```

?LINT:extern cppflags
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm... $c"
dflt="$sysroot/usr/include"
incpath=""
?X: mips_type is used later, to add -DSYSTYPE_BSD43
to cppflags if needed.
mips_type=""
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
echo "Looks like a MIPS system..."
$cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
if $cc $cppflags -E usr.c > usr.out && $contains /usr.out >/dev/null 2>&1; then
dflt='/bsd43/usr/include'
incpath='/bsd43'
mips_type='BSD 4.3'
else
mips_type='System V'
fi
$rm -f usr.c usr.out
echo "and you're compiling with the $mips_type compiler and libraries."
xxx_prompt=y
echo "exit 0" >mips
else
echo "Doesn't look like a MIPS system."
xxx_prompt=n
echo "exit 1" >mips
fi
chmod +x mips
$unicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
echo " "

```

```
rp='Where are the include files you want to use?'
./getfile
usrinc="$ans"
;;
*) usrinc="$dflt"
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/usrinc.U
```

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_wscmp: Compile cat rm\_try run Oldconfig Setvar

?MAKE:-pick add \$@ %<

?S:d\_wscmp:

?S: This variable conditionally defines the HAS\_WCSCMP symbol if the

?S: wscmp() routine is available and can be used to compare wide

?S: character strings.

?S:.

?C:HAS\_WCSCMP:

?C: This symbol, if defined, indicates that the wscmp routine is

?C: available to compare two wide character strings.

?C:.

?H:#\$d\_wscmp HAS\_WCSCMP /\*\*/

?H:.

?F:!try

?LINT: set d\_wscmp

: look for wscmp

echo " "

\$cat >try.c <<'EOCP'

#include <stdio.h>

#include

<wchar.h>

int main ()

{

  wchar\_t \*s = L" ";

  return (wscmp (s, s) ? 1 : 0);

}

EOCP

```

set try
?X: if $cc $cflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
  `$run ./try`
  case "$?" in
0) echo "A working wscmp() found." >&4
  val="$define" ;;
*) echo "wscmp() found, but it doesn't work" >&4
  ;;
esac
else
  echo "wscmp() NOT found." >&4
fi
set d_wscmp
eval $setvar
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_wscmp.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getopt.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS:

?RCS: \$Log: d\_getopt.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:13 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_getopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getopt:

?S: This variable conditionally defines the HAS\_GETOPT symbol, which

?S: indicates that the getopt() routine exists. The getopt() routine

?S: parses command line options in a standard fashion.

?S:.

?C:HAS\_GETOPT (GETOPT):

?C: This symbol, if defined, indicates that the getopt() routine

exists.

?C:.

```
?H:#$d_getopt HAS_GETOPT /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
set getopt d_getopt
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_getopt.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:52 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
```



```

while test $name; do
if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"``
  name=`echo $name | sed -e "s|(.*)/.*|1|"``
else
  name=""
fi
done
for file in $create; do
  mkdir $file
done
EOS
chmod +x mkdirp
$unicefix mkdirp

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Mkdirp.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:46:36 ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
  indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().

```

```
?C:.
?H:#$d_strtod HAS_STRTOD /**/
?H:.
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_strtod.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_sysmode.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:03 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
    see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
    case "`ipcs 2>&1`" in
        "SVID messages"*"not configured"*)
            echo "Your $osname does not have the sem*(2) configured." >&4
            h_sem=false
        val="$undef"
        set semctl d_semctl
        eval $setvar
        set semget d_semget
        eval $setvar
        set semop d_semop
        eval $setvar
    ;;
    esac
    ;;
esac
: we could also check for sys/ipc.h ...
if $h_sem && $test `./findhdr sys/sem.h`; then

```

```
echo "You have the full sem*(2) library." >&4
val="$define"
else
echo "You don't have the full sem*(2) library." >&4
val="$undef"
fi
set d_sem
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sem.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
  symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
```

```

?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
case "$d_srandom_r_proto:$susetheads" in
":define") d_srandom_r_proto=define
set d_srandom_r_proto srandom_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_srandom_r_proto" in
define)
case "$srandom_r_proto" in
"|0) try='int srandom_r(unsigned int, struct random_data*);'
./protochk "$sextern_C $try" $hdrs && srandom_r_proto=I_TS ;;
esac
case "$srandom_r_proto" in
"|0) d_srandom_r=undef
srandom_r_proto=0
echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
*
) case "$srandom_r_proto" in
REENTRANT_PROTO*) ;;
*) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susetheads" in
define) echo "srandom_r has no prototype, not using it." >&4 ;;
esac
d_srandom_r=undef
srandom_r_proto=0
;;
esac
;;
*) srandom_r_proto=0
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_srandom_r.U

```

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```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1 1999/07/09 18:20:13 doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.4 1995/09/25 09:15:32 ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3 1995/01/30 14:32:40 ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:05:28 ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 15:56:51 ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:26 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userlocatableinc initialinstalllocation: \
Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin="
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question. It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp="
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
```

?S:  
?D:installbin="  
?S:installbin:  
?S: This variable is the same as binexp unless AFS is running in which case  
?S: the user is explicitly prompted for it. This variable  
should always  
?S: be used in your makefiles for maximum portability.  
?S:  
?D:userrelocatableinc="  
?S:userrelocatableinc:  
?S: This variable is set to true to indicate that perl should relocate  
?S: @INC entries at runtime based on the path to the perl binary.  
?S: Any @INC paths starting ".../" are relocated relative to the directory  
?S: containing the perl binary, and a logical cleanup of the path is then  
?S: made around the join point (removing "dir../" pairs)  
?S:  
?S:initialinstalllocation:  
?S: When userrelocatableinc is true, this variable holds the location  
?S: that make install should copy the perl binary to, with all the  
?S: run-time relocatable paths calculated from this at install time.  
?S: When used, it is initialized to the original value of binexp, and  
?S: then binexp is set to '.../', as the other binaries are found  
?S: relative to the perl binary.  
?S:  
?C:BIN:  
?C: This symbol holds the path of the bin directory where the package will  
?C: be installed. Program must be  
prepared to deal with ~name substitution.  
?C:  
?C:BIN\_EXP:  
?C: This symbol is the filename expanded version of the BIN symbol, for  
?C: programs that do not want to deal with that at run-time.  
?C:  
?C:PERL\_RELOCATABLE\_INC:  
?C: This symbol, if defined, indicates that we'd like to relocate entries  
?C: in @INC at run time based on the location of the perl binary.  
?C:  
?H:#define BIN "\$bin" /\*\*/  
?H:#define BIN\_EXP "\$binexp" /\*\*/  
?H:#define PERL\_RELOCATABLE\_INC "\$userrelocatableinc" /\*\*/  
?H:  
?D:bin='/usr/local/bin'  
?LINT:change prefix  
?LINT:change prefixexp  
?LINT:change prefixvar  
?LINT:change installprefixexp  
?LINT:set userrelocatableinc  
: determine where public executables go

```

echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
./getfile
if $test "X$sansexp" != "X$binexp"; then
  installbin="
fi
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
  this via initialinstalllocation
./setprefixvar

case "$user relocatableinc" in
$define|true|[yY]*) dflt='y' ;;
*) dflt='n' ;;
esac
cat <<EOM

```

Would you like to build Perl so that the installation is relocatable, so that library paths in @INC are determined relative to the path of the perl binary? This is not advised for system Perl installs, or if you need to run setid scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '\$dflt'.

```

EOM
rp='Use relocatable @INC?'
./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef" ;;
esac
set user relocatableinc
eval $setvar

```

```

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$user relocatableinc" in
$define|true|[yY]*)
  bin="..."
  binexp="..."
  prefix="..."
  prefixexp="..."
  installprefixexp="..."
;;

```



esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/bin.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_mmap.U,v \$

?RCS: Revision 3.0.1.1 1993/12/15 08:19:12 ram

?RCS: patch15: created

?RCS:

?MAKE:d\_mmap: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_mmap:

?S: This variable conditionally defines HAS\_MMAP if mmap() is

?S: available to map a file into memory.

?S:.

?C:HAS\_MMAP:

?C: This symbol, if defined, indicates that the mmap system call is

?C: available to map a file into memory.

?C:.

?H:#\$d\_mmap HAS\_MMAP /\*\*/

?H:.

?LINT:set d\_mmap

: see if mmap exists

set mmap d\_mmap

eval \$inlibc

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_mmap.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: i\_db.U,v \$  
?RCS: Revision 3.0.1.3 1995/07/25 14:10:22 ram  
?RCS: patch56: conditionally use const in test programs (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1995/05/12 12:14:42 ram  
?RCS: patch54: extended for more intimate DB probing (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:21:50 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:i\_db db\_hashtype db\_prefixtype \  
db\_version\_major  
db\_version\_minor db\_version\_patch : \  
Inhdr +cc +ccflags rm\_try contains cat \  
Compile libs sed run i\_stdlib  
?MAKE: -pick add \$@ %<  
?S:i\_db:  
?S: This variable conditionally defines the I\_DB symbol, and indicates  
?S: whether a C program may include Berkeley's DB include file <db.h>.  
?S:.  
?S:db\_hashtype:  
?S: This variable contains the type of the hash structure element  
?S: in the <db.h> header file. In older versions of DB, it was  
?S: int, while in newer ones it is u\_int32\_t.  
?S:.  
?S:db\_prefixtype:  
?S: This variable contains the type of the prefix structure element  
?S: in the <db.h> header file. In older versions of DB, it was  
?S: int, while in newer ones it is size\_t.  
?S:.  
?S:db\_version\_major:  
?S: This variable contains the major version number of  
?S: Berkeley DB found in the <db.h> header file.  
?S:.  
?S:db\_version\_minor:  
?S: This variable contains the minor version number of  
?S: Berkeley DB found in the <db.h> header file.  
?S: For DB version 1 this is always 0.  
?S:.  
?S:db\_version\_patch:

?S: This  
variable contains the patch version number of  
?S: Berkeley DB found in the <db.h> header file.  
?S: For DB version 1 this is always 0.  
?S:.  
?C:I\_DB:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include Berkeley's DB include file <db.h>.  
?C:.  
?C:DB\_Prefix\_t:  
?C: This symbol contains the type of the prefix structure element  
?C: in the <db.h> header file. In older versions of DB, it was  
?C: int, while in newer ones it is u\_int32\_t.  
?C:.  
?C:DB\_Hash\_t:  
?C: This symbol contains the type of the prefix structure element  
?C: in the <db.h> header file. In older versions of DB, it was  
?C: int, while in newer ones it is size\_t.  
?C:.  
?C:DB\_VERSION\_MAJOR\_CFG:  
?C: This symbol, if defined, defines the major version number of  
?C: Berkeley DB found in the <db.h> header when Perl was configured.  
?C:.  
?C:DB\_VERSION\_MINOR\_CFG:  
?C: This symbol, if defined, defines the minor version number of  
?C: Berkeley DB found in the <db.h> header when Perl was configured.  
?C: For  
DB version 1 this is always 0.  
?C:.  
?C:DB\_VERSION\_PATCH\_CFG:  
?C: This symbol, if defined, defines the patch version number of  
?C: Berkeley DB found in the <db.h> header when Perl was configured.  
?C: For DB version 1 this is always 0.  
?C:.  
?H:#\$i\_db I\_DB /\*\*/  
?H:#define DB\_Hash\_t \$db\_hashtype /\*\*/  
?H:#define DB\_Prefix\_t \$db\_prefixtype /\*\*/  
?H:#define DB\_VERSION\_MAJOR\_CFG \$db\_version\_major /\*\*/  
?H:#define DB\_VERSION\_MINOR\_CFG \$db\_version\_minor /\*\*/  
?H:#define DB\_VERSION\_PATCH\_CFG \$db\_version\_patch /\*\*/  
?H:.  
?F:!try  
?LINT:change libs  
: see if this is a db.h system  
set db.h i\_db  
eval \$inhdr  
  
case "\$i\_db" in

```

$define)
: Check db version.
echo " "
echo "Checking Berkeley DB version ..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
    int Major, Minor, Patch ;
    unsigned long Version ;
    (void)db_version(&Major,
&Minor, &Patch) ;
    if (argc == 2) {
        printf("%d %d %d %d %d %d\n",
            DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
            Major, Minor, Patch);
        exit(0);
    }
    printf("You have Berkeley DB Version 2 or greater.\n");

    printf("db.h is from Berkeley DB Version %d.%d.%d\n",
DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
    printf("libdb is from Berkeley DB Version %d.%d.%d\n",
Major, Minor, Patch) ;

    /* check that db.h & libdb are compatible */
    if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
printf("db.h and libdb are incompatible.\n") ;
        exit(3);
    }

    printf("db.h and libdb are compatible.\n") ;

    Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
+ DB_VERSION_PATCH ;

    /* needs to be >= 2.3.4 */
    if (Version < 2003004) {
        /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
printf("Perl needs

```

```

Berkeley DB 2.3.4 or greater.\n" ) ;
    exit(2);
}

    exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
    if (argc == 2) {
        printf("1 0 0\n");
        exit(0);
    }
    printf("You have Berkeley DB Version 1.\n");
    exit(0); /* DB version < 2: the coast is clear. */
#else
    exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try; then
    echo 'Looks OK.' >&4
    set ` $run ./try 1 `
    db_version_major=$1
    db_version_minor=$2
    db_version_patch=$3
else
    echo "I can't use Berkeley DB with your <db.h>. I'll disable Berkeley DB." >&4
    i_db=$undef
    case " $libs " in
    *"-ldb" *)
        : Remove db from list of libraries to use
        echo "Removing unusable -ldb from library list" >&4
        set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
        shift
        libs="$*"
        echo "libs = $libs" >&4
        ;;
    esac
fi
$rm_try
;;
esac

@if DB_Hash_t
case "$i_db" in
define)
    : Check the return type needed

```

```

for hash
echo " "
echo "Checking return type needed for hash for Berkeley DB ..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifdef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
{
return 0;
}
HASHINFO info;
int main()
{
info.hash = hash_cb;
}
#endif
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
if $contains warning try.out >>/dev/null 2>&1 ; then
db_hashtype='int'
else
db_hashtype='u_int32_t'
fi
else
: XXX Maybe we should just give up here.
db_hashtype=u_int32_t
$cat try.out >&4
echo "Help: I can't seem to compile the db test program." >&4
echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
fi
$rm_try
echo "Your version of Berkeley DB uses $db_hashtype for hash."
;;
*) db_hashtype=u_int32_t
;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
: Check the return type needed for prefix
echo " "
echo "Checking return type needed for prefix for Berkeley DB ..." >&4
cat >try.c <<EOCP
#include

```

```

<sys/types.h>
#include <db.h>

#ifdef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
    return 0;
}
BTREEINFO info;
int main()
{
    info.prefix = prefix_cb;
}
#endif
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
if $contains warning try.out >>/dev/null 2>&1 ; then
    db_prefixtype='int'
else
    db_prefixtype='size_t'
fi
else
    db_prefixtype='size_t'
: XXX Maybe we should just give up here.
$cat try.out >&4
echo "Help: I can't seem to compile the db test program." >&4
echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
fi
$rm_try
echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
;;
*) db_prefixtype='size_t'
;;
esac
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_db.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: i\_db.U,v \$  
?RCS: Revision 3.0.1.3 1995/07/25 14:10:22 ram  
?RCS: patch56: conditionally use const in test programs (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1995/05/12 12:14:42 ram  
?RCS: patch54: extended for more intimate DB probing (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:21:50 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:i\_db db\_hashtype db\_prefixtype: Inhdr +cc +ccflags rm\_try contains cat \  
d\_const  
?MAKE: -pick  
add \$@ %<  
?S:i\_db:  
?S: This variable conditionally defines the I\_DB symbol, and indicates  
?S: whether a C program may include Berkeley's DB include file <db.h>.  
?S:.  
?S:db\_hashtype:  
?S: This variable contains the type of the hash structure element  
?S: in the <db.h> header file. In older versions of DB, it was  
?S: int, while in newer ones it is u\_int32\_t.  
?S:.  
?S:db\_prefixtype:  
?S: This variable contains the type of the prefix structure element  
?S: in the <db.h> header file. In older versions of DB, it was  
?S: int, while in newer ones it is size\_t.  
?S:.  
?C:I\_DB:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include Berkeley's DB include file <db.h>.  
?C:.  
?C:DB\_Prefix\_t:  
?C: This symbol contains the type of the prefix structure element  
?C: in the <db.h> header file. In older versions of DB, it was  
?C: int, while in newer ones it is u\_int32\_t.  
?C:.  
?C:DB\_Hash\_t:  
?C: This symbol contains the type of the prefix structure element  
?C: in the <db.h> header  
file. In older versions of DB, it was  
?C: int, while in newer ones it is size\_t.  
?C:.



```

?H:#$i_db I_DB /**/
?H:#define DB_Hash_t $db_hashtype /**/
?H:#define DB_Prefix_t $db_prefixtype /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
: Check the return type needed for hash
echo " "
echo "Checking return type needed for hash for Berkeley DB ..." >&4
$cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
info.hash = hash_cb;
}
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
if $contains warning try.out >>/dev/null 2>&1 ; then
db_hashtype='int'
else
db_hashtype='u_int32_t'
fi
else
echo "I can't seem to compile the test program." >&4
db_hashtype=int
fi
$rm_try
echo "Your version of Berkeley DB uses $db_hashtype for hash."
;;
*) db_hashtype=int
;;

```

```

esac

@end
@if
DB_Prefix_t
case "$i_db" in
define)
: Check the return type needed for prefix
echo " "
echo "Checking return type needed for prefix for Berkeley DB ..." >&4
cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
int main()
{
info.prefix = prefix_cb;
}
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
if $contains warning try.out >>/dev/null 2>&1 ; then
db_prefixtype='int'
else
db_prefixtype='size_t'
fi
else
echo "I can't seem to compile the test program." >&4
db_prefixtype='int'
fi
$rm_try
echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
;;
*) db_prefixtype='int'
;;
esac

@end

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_db.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_copysignl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_copysignl:

?S: This variable conditionally defines the HAS\_COPYSIGNL symbol, which

?S: indicates to the C program that the copysignl() routine is available.

?S: If aintl is also present we can emulate modfl.

?S:.

?C:HAS\_COPYSIGNL:

?C: This symbol, if defined, indicates that the copysignl routine is

?C: available. If aintl is also present we can emulate modfl.

?C:.

?H:#\$d\_copysignl HAS\_COPYSIGNL /\*\*/

?H:.

?LINT:set d\_copysignl

: see if copysignl exists

set copysignl d\_copysignl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_copysignl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_sysconf.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:15:57 ram

?RCS: patch36: created by ADO  
?RCS:  
?MAKE:d\_sysconf: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_sysconf:  
?S: This variable conditionally defines the HAS\_SYSCONF symbol, which  
?S: indicates to the C program that the sysconf() routine is available  
?S: to determine system related limits and options.  
?S:.  
?C:HAS\_SYSCONF:  
?C: This  
symbol, if defined, indicates that sysconf() is available  
?C: to determine system related limits and options.  
?C:.  
?H:#\$d\_sysconf HAS\_SYSCONF /\*\*/  
?H:.  
?LINT:set d\_sysconf  
: see if sysconf exists  
set sysconf d\_sysconf  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_sysconf.U

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?RCS: \$Id: i\_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp \$  
?RCS:  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: i\_pwd.U,v \$  
?RCS: Revision 3.0.1.2 1995/07/25 14:10:57 ram  
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 15:03:27 ram  
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:25 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit checks whether there is a pwd system or not

?X:  
?MAKE:i\_pwd d\_pwquota d\_pwage d\_pwchange  
d\_pwclass d\_pwexpire \  
d\_pwgecos d\_pwpasswd d\_pwcomment: \  
contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar  
?MAKE: -pick add \$@ %<  
?S:i\_pwd:  
?S: This variable conditionally defines I\_PWD, which indicates  
?S: to the C program that it should include <pwd.h>.  
?S:.  
?S:d\_pwquota:  
?S: This variable conditionally defines PWQUOTA, which indicates  
?S: that struct passwd contains pw\_quota.  
?S:.  
?S:d\_pwage:  
?S: This variable conditionally defines PWAGE, which indicates  
?S: that struct passwd contains pw\_age.  
?S:.  
?S:d\_pwchange:  
?S: This variable conditionally defines PWCHANGE, which indicates  
?S: that struct passwd contains pw\_change.  
?S:.  
?S:d\_pwclass:  
?S: This variable conditionally defines PWCLASS, which indicates  
?S: that struct passwd contains pw\_class.  
?S:.  
?S:d\_pwexpire:  
?S: This variable conditionally defines PWEXPIRE, which indicates  
?S: that struct passwd contains pw\_expire.  
?S:.  
?S:d\_pwcomment:  
?S: This variable conditionally defines PWCOMMENT, which indicates  
?S: that  
struct passwd contains pw\_comment.  
?S:.  
?S:d\_pwgecos:  
?S: This variable conditionally defines PWGECOS, which indicates  
?S: that struct passwd contains pw\_gecos.  
?S:.  
?S:d\_pwpasswd:  
?S: This variable conditionally defines PWPASSWD, which indicates  
?S: that struct passwd contains pw\_passwd.  
?S:.  
?C:I\_PWD:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <pwd.h>.  
?C:.  
?C:PWQUOTA:

```

?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_gecos.
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

```

```
case "$i_pwd" in
$define)
xxx=`./findhdr pwd.h`
$cpstdin $cppflags $cppminus < $xxx >$$.h

if $contains 'pw_quota' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwquota
eval $setvar

if $contains 'pw_age'
$$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$h >/dev/null 2>&1; then
```

```

val="$define"
else
val="$undef"
fi
set d_pwcomment
eval $setvar

if $contains 'pw_gecos' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwgecos
eval $setvar

if $contains 'pw_passwd' $$h >/dev/null 2>&1; then
val="$define"
else
val="$undef"
fi
set d_pwpasswd
eval $setvar

$rm -f $$h
;;
*)
val="$undef";
set d_pwquota; eval $setvar
set d_pwage; eval $setvar
set d_pwchange; eval $setvar
set d_pwclass; eval $setvar
set
d_pwexpire; eval $setvar
set d_pwcomment; eval $setvar
set d_pwgecos; eval $setvar
set d_pwpasswd; eval $setvar
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_pwd.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2001, Jarkko Hietaniemi

?RCS:



?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS:  
?MAKE:d\_dirfd: Compile cat rm Setvar i\_dirent i\_sysdir i\_sysndir i\_systypes i\_stdlib  
?MAKE:-pick add \$@ %<  
?S:d\_dirfd:  
?S: This variable conditionally defines the HAS\_DIRFD constant,  
?S: which indicates to the C program that dirfd() is available  
?S: to return the file descriptor of a directory stream.  
?S:.  
?C:HAS\_DIRFD:  
?C: This manifest constant lets the C program know that dirfd  
?C: is available.  
?C:.  
?H:#\$d\_dirfd HAS\_DIRFD /\*\*/  
?H:.  
?LINT:set d\_dirfd  
?X: Can't use Inlibc because dirfd() might be a macro.  
: Look  
for dirfd  
echo " "  
\$cat >dirfd.c <<EOM  
#include <stdio.h>  
#\$i\_stdlib I\_STDLIB  
#ifdef I\_STDLIB  
#include <stdlib.h>  
#endif  
#\$i\_dirent I\_DIRENT /\*\*/  
#\$i\_sysdir I\_SYS\_DIR /\*\*/  
#\$i\_sysndir I\_SYS\_NDIR /\*\*/  
#\$i\_systypes I\_SYS\_TYPES /\*\*/  
#if defined(I\_SYS\_TYPES)  
#include <sys/types.h>  
#endif  
#if defined(I\_DIRENT)  
#include <dirent.h>  
#else  
#ifdef I\_SYS\_NDIR  
#include <sys/ndir.h>  
#else  
#ifdef I\_SYS\_DIR  
#include <sys/dir.h>  
#endif  
#endif  
#endif

```

#endif
int main() {
  DIR *dirp = opendir(".");
  if (dirfd(dirp) >= 0)
    exit(0);
  else
    exit(1);
}
EOM
val=$undef
set dirfd
if eval $compile; then
  val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*) echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_dirfd.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Begin.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 14:56:35 ram

?RCS: patch61: added Extractall dependency

?RCS:

?RCS: Revision 3.0.1.2 1995/01/30 14:25:08 ram

?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)

?RCS:

?RCS: Revision 3.0.1.1 1994/10/31 09:32:20 ram

?RCS: patch44: created

?RCS:

?X:

?X: This file comes after option processing had been done and after all  
?X: the default values have been set up. It marks the beginning  
of questions.  
?X: It is important that Options be listed \*after\* Myinit to ensure that the  
?X: default initializations performed by Init and Myinit will not clobber  
?X: any setting done on the command line via -D or -U.  
?X:  
?MAKE:Begin: Myinit Options package Extractall  
?MAKE: -pick add \$@ %<  
: Eunice requires " " instead of "" , can you believe it  
echo " "  
: Here we go...  
echo "Beginning of configuration questions for \$package."

?X: Make sure the rm below is given a non-empty list for some systems.  
?X: This is run only when within the UU directory, hence we can safely  
?X: attempt to rm a non-existent 'X' file...  
trap 'echo " "; test -d ../UU && rm -rf X \$rmlist; exit 1' 1 2 3 15

Found in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/dist/U/Begin.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: Ins.U,v \$  
?RCS: Revision 3.0.1.1 1994/06/20 07:05:52 ram  
?RCS: patch30: created by ADO  
?RCS:  
?X:  
?X: This unit checks whether symbolic links are really supported.  
?X: We can't rely on d\_symlink because that may be listed in the  
?X: C library but unimplemented.  
?X:  
?MAKE:Ins: ln rm touch test  
?MAKE: -pick add \$@ %<  
?S:Ins:

?S: This variable holds the name of the command to make

?S: symbolic links (if they are supported).

It can be used

?S: in the Makefile. It is either 'ln -s' or 'ln'

?S:.

: determine whether symbolic links are supported

echo " "

\$rm -f blurfl sym

\$touch blurfl

if \$ln -s blurfl sym > /dev/null 2>&1 && \$test -f sym; then

echo "Symbolic links are supported." >&4

lns="\$ln -s"

else

echo "Symbolic links are NOT supported." >&4

lns="\$ln"

fi

\$rm -f blurfl sym

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/lns.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_drاند48\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_drاند48\_r drاند48\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_stdlib extern\_C

?MAKE: -pick add \$@ %<

?S:d\_drاند48\_r:

?S: This variable conditionally defines the HAS\_DRAND48\_R symbol,

?S: which indicates to the C program that the drاند48\_r()

?S: routine is available.

?S:.

?S:drاند48\_r\_proto:

?S: This variable encodes the prototype of drاند48\_r.

?S: It is zero if d\_drاند48\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_drاند48\_r

?S: is defined.

?S:.

?C:HAS\_DRAND48\_R:

?C: This symbol, if defined, indicates that the drاند48\_r routine

?C: is available to drاند48 re-entrantly.

```

?C:.
?C:DRAND48_R_PROTO:
?C: This
symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
case "$d_drand48_r_proto:$usethreads" in
":define") d_drand48_r_proto=define
set d_drand48_r_proto drand48_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_drand48_r_proto" in
define)
case "$drand48_r_proto" in
"|0) try='int drand48_r(struct drand48_data*, double*);'
./protechk "$sextern_C $try" $hdrs && drand48_r_proto=I_ST ;;
esac
case "$drand48_r_proto" in
"|0) d_drand48_r=undef
drand48_r_proto=0
echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
* ) case
"$drand48_r_proto" in
REENTRANT_PROTO*) ;;
*) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "drand48_r has no prototype, not using it." >&4 ;;
esac
d_drand48_r=undef
drand48_r_proto=0
;;

```

```
esac
;;
*) drand48_r_proto=0
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_drand48_r.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vaprot0.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>

?RCS:

?RCS: \$Log: vaprot0.U,v \$

?RCS: Revision 3.0.1.1 1994/01/24 14:17:16 ram

?RCS: patch16: definition of \_V now appears only when needed

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:59 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:vaprot0: prototype i\_stdarg Setvar

?MAKE: -pick add \$@ %<

?S:vaprot0:

?S: This variable conditionally defines CAN\_VAPROTO on systems supporting

?S: prototype

declaration of functions with a variable number of

?S: arguments. See also prototype.

?S:.

?C:CAN\_VAPROTO ~ %<:

?C: This variable is defined on systems supporting prototype declaration

?C: of functions with a variable number of arguments.

?C:.

?C:\_V:

?C: This macro is used to declare function parameters in prototypes for

?C: functions with a variable number of parameters. Use double parentheses.

?C: For example:

?C:

?C: int printf \_V((char \*fmt, ...));

```

?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
echo "It appears we'll be able
to prototype varargs functions." >&4
val="$define"
;;
*)
echo "Too bad... We won't be using prototyped varargs functions..." >&4
val="$undef"
;;
esac
set vaproto
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/vaproto.U

```

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```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2 1995/01/11 15:28:52 ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:

```

```

?RCS: Revision 3.0.1.1 1993/12/15 08:21:17 ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:48 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable:
cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
*) dflt=n;;
esac
$cat <<'EOH'

```

I can set things up so that your shell scripts and binaries are more portable, at what may be a noticable cost in performance. In particular, if you ask to be portable, the following happens:

- 1) Shell scripts will rely on the PATH variable rather than using the paths derived above.
- 2) ~username interpretations will be done at run time rather than by Configure.
- @if PHOSTNAME
- 3) The system name will be determined at run time, if at all possible.
- @end

EOH



```
rp="Do you expect to run these scripts and binaries on multiple machines?"
./myread
case "$ans" in
y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
;;
*) d_portable="$undef" ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_portable.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5 1997/02/28 15:04:41 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4 1994/08/29 16:05:09 ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3 1993/10/16 13:47:30 ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
3.0.1.2 1993/09/13 15:48:49 ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1 1993/08/27 14:38:38 ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:06 ram
?RCS: Baseline for dist 3.0 netwide release.
```

?RCS:  
?RCS:  
?X:  
?X: This unit asks the user to please send a message to the author.  
?X: To force inclusion of this unit, you must add it's name to the  
?X: dependancies on the MAKE line in your private copy of End.U.  
?X: This allows a smart mailagent program to automatically let users know  
?X: when their package is out of date, and to allow users to be notified of  
?X: any future patches.  
?X:

?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \  
package Myread patchlevel baserev rm rsrc Oldconfig Configdir

?MAKE: -pick wipe \$@ %<

?S:mailpatches:

?S: Indicates whether the user would like future patches to be mailed  
?S: directly  
to them.

?S:.

?S:notifypatches:

?S: Indicates whether the user would like notification of future patches  
?S: mailed to them.

?S:.

?S:usermail:

?S: This variable is used internally by Configure to keep track of the  
?S: user e-mail address, where notifications or patches should be sent.  
?S: A '-' value means the return address will be extracted by parsing  
?S: the mail headers.

?S:.

?T:opt mailpatches notifypatches atsh status

: notify author that his package is used

if \$test -f ../config/mailauthor &&

cmp \$rsrc/patchlevel.h ../config/mailauthor >/dev/null 2>&1

then

status="say that you're using \$package";

case "\$mailpatches" in

true) status='have patches mailed to you as they are issued';

esac

case "\$notifypatches" in

true) status='be notified when new patches are issued';

esac

\$cat <<EOM

You have already sent the author of \$package (<MAINTLOC>) mail to  
\$status. If you wish, you may modify  
your previous request by sending a new mail with different options.

EOM

rp='Should

I send a status update to <MAINTLOC>?'

```
dflt=n
else
$cat <<EOM
```

If you are able to send mail to the Internet, the author of \$package would really appreciate you letting me send off a quick note, just to say that you've tried it. The author is more likely to spend time maintaining \$package if it's known that many people are using it, and you can even ask to get sent new patches automagically this way if you wish. To protect your privacy, all I'll say in the mail is the version of \$package that you're using.

EOM

```
rp='Should I send mail to <MAINTLOC>?'
dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
$test -f ../config/nomail && dflt=n
fi
./myread
case "$ans" in
[yY]*)
echo " "
echo "Great! Your cooperation is really appreciated."
$cat <<EOM
```

Some braindead sites do not set a proper return

address in the From: header of

their outgoing mail, making it impossible to reply to mail they generate.

If your site is broken in this way, write to your system administrator and get it fixed!!! In the mean time, you can manually specify the Internet e-mail address by which the author can get back to you, should there be a need to do so. If manually specified, it should be something like "user@domain.top".

If your mail system generates addresses correctly, specify "none".

EOM

```
case "$usermail" in
'|') dflt=none;;
*) dflt="$usermail";;
esac
rp='Manually specify a return address to use:'
./myread
case "$ans" in
none|*@*.*)
case "$ans" in
none) usermail='-';;
*) usermail="$ans";;
```

```

esac
;;
*)
echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
RAM.
?X:
usermail='- '
mailpatches=false
notifypatches=false
;;
esac
echo " "
opt="
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
mailpatches=false
echo " "
rp='Ok, would you like to simply be notified of new patches?'
case "$notifypatches" in
false) dflt=n;;
*) dflt=y;;
esac
./myread
echo " "
case "$ans" in
[yY]*) opt=' notifypatches'; notifypatches=true;;
*)
echo "Fine, I'll simply say that you've tried it then."
notifypatches=false
;;
esac
;;
esac
echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.

```

atsh='@SH'  
\$mailer <MAINTLOC> <<EOM >/dev/null 2>&1  
Subject: Command  
Precedence: junk  
To: <MAINTLOC>

```
$atsh
package $usermail $package $baserev $patchlevel$opt
EOM
$rm -f ../config/mailauthor ../config/nomail
cp $src/patchlevel.h ../config/mailauthor
;;
*)
case "$dflt" in
"y")
echo "Oh well, maybe next time."
cp /dev/null ../config/nomail
;;
esac
;;
esac
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/MailAuthor.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ercf: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ercf:

?S: This variable conditionally defines the HAS\_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS\_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d\_ercf HAS\_ERFC /\*\*/

?H:.

?LINT:set d\_ercf

: see if erfc exists

set erfc d\_ercf

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_erfc.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Typedef.U,v \$

?RCS: Revision 3.0.1.3 1995/07/25 13:42:07 ram

?RCS: patch56: added backslash escapes within evals to prevent space problems

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:01:16 ram

?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:05:14 ram

?RCS: patch32: created

?RCS:

?X:

?X: This unit checks for the definition of a given typedef.

?X:

?X: To use it, say:

?X: set typedef val\_t default [includes]

?X: eval \$typedef

?X:

?MAKE:Typedef:

cppstdin cppminus cppflags rm contains Oldconfig

?MAKE: -pick add \$@ %<

?F:!temp.c

?LINT:define typedef

?V:typedef

?S:typedef:

?S: This shell variable is used internally by Configure to check

?S: whether a given typedef is defined or not. A typical use is:

?S: set typedef val\_t default [includes]

?S: eval \$typedef

?S: That will return val\_t set to default if the typedef was not found,

?S: to typedef otherwise. If no includes are specified, look in sys/types.h.

?S:.

?T:type var def inclist varval inc

: define an is-a-typedef? function

typedef='type=\$1; var=\$2; def=\$3; shift; shift; shift; inclist=\$@;

```

case "$inclist" in
"" ) inclist="sys/types.h";;
esac;
eval "varval=\${$var}";
case "$varval" in
"" )
$rm -f temp.c;
for inc in $inclist; do
echo "#include <$inc>" >>temp.c;
done;
$cpstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
if $contains $type temp.E >/dev/null 2>&1; then
eval "$var=\${type}";
else
eval "$var=\${def}";
fi;
$rm -f temp.?.;
*) eval
"$var=\${varval}";;
esac'

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Typedef.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Setvar.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 15:58:28 ram

?RCS: patch36: call ./whoa explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:16 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a variable that is intended to be eval'ed in

?X: order to define/undefine a symbol. A consistency check is made

?X: regarding any previous value and a warning is issued if there

?X: is any discrepancy.

```

?X:
?X:
  To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S: set d_variable
?S: eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/Setvar.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4 1997/02/28 16:09:19 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:

```



```

?RCS: Revision 3.0.1.3 1994/05/13 15:27:12 ram
?RCS: patch27: added yacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2 1994/05/06 15:09:01 ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:13:49 ram
?RCS: patch16: un-obsolete this unit for smooth yacc compilations
?RCS:
?RCS:
Revision 3.0 1993/08/18 12:09:04 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines. If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
echo "You are using yacc, so I won't look for a yacc library." >&4
libyacc="
;;
*yacc)
xxx=`./loc liby$_a x $libpth`
case "$xxx" in
x)
echo "No yacc library found." >&4
libyacc="
;;
*)
echo "yacc library found in $xxx." >&4
libyacc="$xxx"
;;
esac
;;
*bison*)
echo "You are using bison, so I won't look for a yacc library." >&4
libyacc="
;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
libyacc="

```

```
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/libyacc.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?MAKE:i_syspoll: Inhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_syspoll:
```

```
?S: This variable conditionally defines the I_SYS_POLL symbol, which
```

```
?S: indicates to the C program that it should include <sys/poll.h>.
```

```
?S:.
```

```
?C:I_SYS_POLL:
```

```
?C: This symbol, if defined, indicates that the program may include
```

```
?C: <sys/poll.h>. When I_POLL is also defined, it's probably safest
```

```
?C: to only include <poll.h>.
```

```
?C:.
```

```
?H:#$i_syspoll I_SYS_POLL /**/
```

```
?H:.
```

```
?LINT:set i_syspoll
```

```
: see if there is
```

```
  a sys/poll.h file
```

```
set sys/poll.h i_syspoll
```

```
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_syspoll.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_wait4.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:01 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_wait4: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_wait4:

?S: This variable conditionally defines the HAS\_WAIT4 symbol, which

?S: indicates the wait4() routine is available.

?S:.

?C:HAS\_WAIT4 (WAIT4):

?C: This symbol, if defined, indicates that wait4() exists.

?C:.

?H:#\$d\_wait4 HAS\_WAIT4 /\*\*/

?H:.

?LINT:set d\_wait4

: see if there is a wait4

set

wait4 d\_wait4

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_wait4.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999-2000, Andy Dougherty

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: vendorman3dir.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \

Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed

?MAKE: -pick add \$@ %<

?Y:TOP

?S:vendorman3dir:  
 ?S: This variable contains the name of the directory for man3  
 ?S: pages. It may have a ~ on the front.  
 ?S: The standard distribution will put nothing in this directory.  
 ?S: Vendors  
 who distribute perl may wish to place their own  
 ?S: man3 pages in this directory with  
 ?S: MakeMaker Makefile.PL INSTALLDIRS=vendor  
 ?S: or equivalent. See INSTALL for details.  
 ?S:.  
 ?S:vendorman3direxp:  
 ?S: This variable is the ~name expanded version of vendorman3dir, so that you  
 ?S: may use it directly in Makefiles or shell scripts.  
 ?S:.  
 ?D:installvendorman3dir="  
 ?S:installvendorman3dir:  
 ?S: This variable is really the same as vendorman3direxp but may differ on  
 ?S: those systems using AFS. For extra portability, only this variable  
 ?S: should be used in makefiles.  
 ?S:.  
 ?LINT:change prefixvar  
 ?LINT:set installvendorman3dir  
 : Set the vendorman3dir variables  
 case "\$vendorprefix" in  
 ") vendorman3dir="  
 vendorman3direxp="  
 ;;  
 \*) : determine where vendor-supplied module manual pages go.  
 case "\$vendorman3dir" in  
 ") dflt=`echo "\$man3dir" | \$sed "s#^\$prefix#\$vendorprefix#"` ;;  
 \*) dflt=\$vendorman3dir ;;  
 esac  
 case "\$dflt" in  
 "|") dflt=none ;;  
 esac  
 fn=nd~+  
 rp='Pathname  
 for the vendor-supplied manual section 3 pages?'  
 ./getfile  
 vendorman3dir="\$ans"  
 vendorman3direxp="\$ansexp"  
 ;;  
 esac  
 : Use ' ' for none so value is preserved next time through Configure  
 \$test X"\$vendorman3dir" = "X" && vendorman3dir=' '  
 prefixvar=vendorman3dir  
 ./installprefix

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorsman3dir.U
```

No license file was found, but licenses were detected in source scan.

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:sizesize: Myread Typedef sizetype Compile run i\_stdlib

?MAKE: -pick add \$@ %<

?S:sizesize:

?S: This variable contains the size of a sizetype in bytes.

?S:.

?C:Size\_t\_size:

?C: This symbol holds the size of a Size\_t in bytes.

?C:.

?H:#define Size\_t\_size \$sizesize /\*\*/

?H:.

?T:yyy zzz

?F:!try

: Check size of size

echo " "

case "\$sizetype" in

\*\_t) zzz="\$sizetype" ;;

\*) zzz="filesize" ;;

esac

echo "Checking the size of \$zzz..." >&4

cat > try.c <<EOCP

#include <sys/types.h>

#include <stdio.h>

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include

<stdlib.h>

#endif

int main() {

printf("%d\n", (int)sizeof(\$sizetype));

exit(0);

}

EOCP

set try

if eval \$compile\_ok; then

```

yyy=`$run ./try`
case "$yyy" in
") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
*) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
esac
else
  sizesize=4
  echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/sizesize.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_pthratrj.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_old\_pthread\_create\_joinable old\_pthread\_create\_joinable: \  
 cat Compile rm\_try Setvar usethreads i\_pthread

?MAKE: -pick add \$@ %<

?S:d\_old\_pthread\_create\_joinable:

?S: This variable conditionally defines pthread\_create\_joinable.

?S: undef if pthread.h defines PTHREAD\_CREATE\_JOINABLE.

?S:.

?S:old\_pthread\_create\_joinable:

?S: This variable defines the constant to use for creating joinable

?S: (aka undetached) pthreads. Unused if pthread.h defines

?S: PTHREAD\_CREATE\_JOINABLE. If used, possible values are

?S: PTHREAD\_CREATE\_UNDETACHED and \_\_UNDETACHED.

?S:.

?C:OLD\_PTHREAD\_CREATE\_JOINABLE:

?C: This symbol, if defined, indicates how to create pthread

?C: in joinable (aka undetached)

state. NOTE: not defined

?C: if pthread.h already has defined PTHREAD\_CREATE\_JOINABLE

?C: (the new version of the constant).

?C: If defined, known values are PTHREAD\_CREATE\_UNDETACHED

?C: and \_\_UNDETACHED.

?C:.

```

?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H.:
: how to create joinable pthreads
if test "X$usetthreads" = "X$define" -a "X$i_pthread" = "X$define"; then
echo " "
echo "Checking what constant to use for creating joinable pthreads..." >&4
$cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
    int detachstate = JOINABLE;
}
EOCP
set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
if eval $compile; then
echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
val="$undef" # Yes, undef.
set d_old_pthread_create_joinable
eval $setvar
val=""
set old_pthread_create_joinable
eval $setvar
else
set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
if eval $compile; then
echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
val="$define"
set
d_old_pthread_create_joinable
eval $setvar
val=PTHREAD_CREATE_UNDETACHED
set old_pthread_create_joinable
eval $setvar
else
set try -DJOINABLE=__UNDETACHED
if eval $compile; then
echo "You seem to use __UNDETACHED." >&4
val="$define"
set d_old_pthread_create_joinable
eval $setvar
val=__UNDETACHED
set old_pthread_create_joinable
eval $setvar
else
echo "Egads, nothing obvious found. Guessing that you use 0." >&4
val="$define"
set d_old_pthread_create_joinable
eval $setvar
val=0

```

```
    set old_pthread_create_joinable
    eval $setvar
fi
fi
fi
$rm_try
else
    d_old_pthread_create_joinable="$undef"
    old_pthread_create_joinable=""
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_pthratrj.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:02:55 ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2 1995/02/15 14:11:34 ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1 1995/01/11 15:12:05 ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:04 ram
?RCS: Baseline for
dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read. I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
```



```

?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;
esac
if $contains "^$user$" ../.config/instruct >/dev/null 2>&1; then
firsttime=false
echo " "
rp='Would you like to see the instructions?'
dflt=n
. ./myread
case "$ans" in
[yY]*) ;;
*) needman=false;;
esac
fi
if $needman; then
cat <<EOH

```

This installation shell script will examine your system and ask you questions to determine how the <PACKAGENAME> package should be installed. If you get stuck on a question, you may use a ! shell escape to start a subshell or execute a command. Many of the questions will have default answers in square brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed to use the ~name construct to specify the login directory belonging to "name", even if you don't have a shell which knows about that. Questions where this is allowed will be marked "(~name ok)".

```

EOH
rp="
dflt='Type carriage return to continue'
. ./myread
cat <<'EOH'

```

The prompter used in this script allows you to use shell variables and backticks in your answers. You may use \$1, \$2, etc... to refer to the words in the default answer, as if the default line was a set of arguments given to a script shell. This means you may also use \$\* to repeat the whole default line, so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm. If there is an error (e.g. an unmatched backtick), the default answer

will remain unchanged  
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'. This will bypass nearly all the questions and use the computed defaults (or the previous answers if there was already a config.sh file). Type 'Configure -h' for a list of options. You may also start interactively and then answer '& -d' at any prompt to turn on the non-interactive behaviour for the remainder of the execution.

EOH

```
. ./myread  
cat <<EOH
```

Much effort has been expended to ensure that this shell script will run on any Unix system. If despite that it blows up on yours, your best bet is to edit Configure and run it again. If you can't run Configure for some reason, you'll have to generate a config.sh file by hand. Whatever problems you have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

- 1) it may do direct variable substitutions on some of the files included in this kit.
- 2) it builds a config.h file for inclusion in C programs. You may edit any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it currently. The easiest thing to do is to edit config.sh and rerun all the SH files. Configure will offer to let you do this before it runs the SH files.

EOH

```
?X: In case they played with the prompter...  
dflt='Type carriage return to continue'  
. ./myread  
case "$firsttime" in  
true) echo $user >>../config/instruct;;  
esac  
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Instruct.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_recvmsg: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_recvmsg:  
?S: This variable conditionally defines the HAS\_RECVMSG symbol, which  
?S: indicates to the C program that the recvmsg() routine is available.  
?S:.  
?C:HAS\_RECVMSG:  
?C: This symbol, if defined, indicates that the recvmsg routine is  
?C: available to send structured socket messages.  
?C:.  
?H:#\$d\_recvmsg HAS\_RECVMSG /\*\*/  
?H:.  
?LINT:set d\_recvmsg  
: see if recvmsg exists  
set recvmsg d\_recvmsg  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_recvmsg.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_fp\_class.U,v \$  
?RCS:  
?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_fp\_class: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_fp\_class:  
?S: This variable conditionally defines the I\_FP\_CLASS symbol, and indicates  
?S: whether a C program should include <fp\_class.h>.  
?S:.  
?C:I\_FP\_CLASS:  
?C: This symbol, if defined, indicates that <fp\_class.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_fp\_class I\_FP\_CLASS /\*\*/  
?H:.  
?LINT:set i\_fp\_class  
: see if this is a fp\_class.h system  
set fp\_class.h i\_fp\_class

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_fp\_class.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_socket.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:46:00 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:08:04 ram

?RCS: patch16: can now safely declare private nm\_extract in dependencies

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:26 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_socket d\_oldsock d\_sockpair socketlib sockethdr \

d\_msg\_trunc d\_msg\_dontroute d\_msg\_oob d\_msg\_peek

d\_msg\_proxy \

d\_scm\_rights d\_sockaddr\_sa\_len d\_sockaddr\_in6 d\_sin6\_scope\_id \

d\_ip\_mreq d\_ip\_mreq\_source d\_ipv6\_mreq d\_ipv6\_mreq\_source \

d\_sockaddr\_storage: \

contains echo n c ar nm nm\_opt nm\_extract Inlibc Csym \_a \

Compile cat rm\_try Setvar Hasfield sysroot

?MAKE: -pick add \$@ %<

?S:d\_socket:

?S: This variable conditionally defines HAS\_SOCKET, which indicates

?S: that the BSD socket interface is supported.

?S:.

?S:d\_sockpair:

?S: This variable conditionally defines the HAS\_SOCKETPAIR symbol, which

?S: indicates that the BSD socketpair() is supported.

?S:.

?S:d\_oldsock:

?S: This variable conditionally defines the OLDSOCKET symbol, which

?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.

?S:.

?S:d\_msg\_ctrunc:

?S: This variable conditionally defines the HAS\_MSG\_CTRUNC symbol,

?S: which indicates that the MSG\_CTRUNC is available. #ifdef is

?S: not enough because it may be an enum, glibc has been known to do this.

?S:.

?S:d\_msg\_dontroute:

?S: This variable

conditionally defines the HAS\_MSG\_DONTRROUTE symbol,

?S: which indicates that the MSG\_DONTRROUTE is available. #ifdef is

?S: not enough because it may be an enum, glibc has been known to do this.

?S:.

?S:d\_msg\_oob:

?S: This variable conditionally defines the HAS\_MSG\_OOB symbol,

?S: which indicates that the MSG\_OOB is available. #ifdef is

?S: not enough because it may be an enum, glibc has been known to do this.

?S:.

?S:d\_msg\_peek:

?S: This variable conditionally defines the HAS\_MSG\_PEEK symbol,

?S: which indicates that the MSG\_PEEK is available. #ifdef is

?S: not enough because it may be an enum, glibc has been known to do this.

?S:.

?S:d\_msg\_proxy:

?S: This variable conditionally defines the HAS\_MSG\_PROXY symbol,

?S: which indicates that the MSG\_PROXY is available. #ifdef is

?S: not enough because it may be an enum, glibc has been known to do this.

?S:.

?S:d\_scm\_rights:

?S: This variable conditionally defines the HAS\_SCM\_RIGHTS symbol,

?S: which indicates that the SCM\_RIGHTS is available.

#ifdef is

?S: not enough because it may be an enum, glibc has been known to do this.

?S:.

?S:d\_sockaddr\_sa\_len:

?S: This variable conditionally defines the HAS\_SOCKADDR\_SA\_LEN symbol,

?S: which indicates that a struct sockaddr structure has the sa\_len

?S: member.

?S:.

?S:d\_sockaddr\_in6:

?S: This variable conditionally defines the HAS\_SOCKADDR\_IN6 symbol, which

?S: indicates the availability of a struct sockaddr\_in6.

?S:.

?S:d\_sockaddr\_storage:

?S: This variable conditionally defines the HAS\_SOCKADDR\_STORAGE symbol,

?S: which indicates the availability of a struct sockaddr\_storage.

?S:.

?S:d\_sin6\_scope\_id:

?S: This variable conditionally defines the HAS\_SIN6\_SCOPE\_ID symbol, which

?S: indicates that a struct sockaddr\_in6 structure has the sin6\_scope\_id

?S: member.

?S:.

?S:d\_ip\_mreq:

?S: This variable conditionally defines the HAS\_IP\_MREQ symbol, which

?S: indicates the availability of a struct ip\_mreq.

?S:.

?S:d\_ip\_mreq\_source:

?S: This variable conditionally defines the HAS\_IP\_MREQ\_SOURCE

symbol,

?S: which indicates the availability of a struct ip\_mreq\_source.

?S:.

?S:d\_ipv6\_mreq:

?S: This variable conditionally defines the HAS\_IPV6\_MREQ symbol, which

?S: indicates the availability of a struct ipv6\_mreq.

?S:.

?S:d\_ipv6\_mreq\_source:

?S: This variable conditionally defines the HAS\_IPV6\_MREQ\_SOURCE symbol,

?S: which indicates the availability of a struct ipv6\_mreq\_source.

?S:.

?S:socketlib:

?S: This variable has the names of any libraries needed for socket support.

?S:.

?S:sockethdr:

?S: This variable has any cpp '-I' flags needed for socket support.

?S:.

?C:HAS\_SOCKET (SOCKET):

?C: This symbol, if defined, indicates that the BSD socket interface is

?C: supported.

?C:.

?C:HAS\_SOCKETPAIR (SOCKETPAIR):

?C: This symbol, if defined, indicates that the BSD socketpair() call is

?C: supported.

?C:.

?C:USE\_OLD\_SOCKET (OLDSOCKET):

?C: This symbol, if defined, indicates that the 4.1c BSD socket interface

?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,

?C: there

is no setsockopt() call.

?C:.

?C:HAS\_MSG\_CTRUNC:

?C: This symbol, if defined, indicates that the MSG\_CTRUNC is supported.

?C: Checking just with #ifdef might not be enough because this symbol

?C: has been known to be an enum.

?C:.

?C:HAS\_MSG\_DONTROUTE:

?C: This symbol, if defined, indicates that the MSG\_DONTROUTE is supported.

?C: Checking just with #ifdef might not be enough because this symbol

?C: has been known to be an enum.

?C:.

?C:HAS\_MSG\_OOB:

?C: This symbol, if defined, indicates that the MSG\_OOB is supported.

?C: Checking just with #ifdef might not be enough because this symbol

?C: has been known to be an enum.

?C:.

?C:HAS\_MSG\_PEEK:

?C: This symbol, if defined, indicates that the MSG\_PEEK is supported.

?C: Checking just with #ifdef might not be enough because this symbol

?C: has been known to be an enum.

?C:.

?C:HAS\_MSG\_PROXY:

?C: This symbol, if defined, indicates that the MSG\_PROXY is supported.

?C: Checking just with #ifdef might not be enough because this

symbol

?C: has been known to be an enum.

?C:.

?C:HAS\_SCM\_RIGHTS:

?C: This symbol, if defined, indicates that the SCM\_RIGHTS is supported.

?C: Checking just with #ifdef might not be enough because this symbol

?C: has been known to be an enum.

?C:.

?C:HAS\_SOCKADDR\_SA\_LEN:

?C: This symbol, if defined, indicates that the struct sockaddr

?C: structure has a member called sa\_len, indicating the length of

?C: the structure.

?C:.

?C:HAS\_SOCKADDR\_IN6:

?C: This symbol, if defined, indicates the availability of

?C: struct sockaddr\_in6;

?C:.

?C:HAS\_SOCKADDR\_STORAGE:

?C: This symbol, if defined, indicates the availability of

?C: struct sockaddr\_storage;

?C:.

?C:HAS\_SIN6\_SCOPE\_ID:

?C: This symbol, if defined, indicates that the struct sockaddr\_in6

?C: structure has a member called sin6\_scope\_id.

?C:.

?C:HAS\_IP\_MREQ:

?C: This symbol, if defined, indicates the availability of

?C: struct ip\_mreq;

?C:.

?C:HAS\_IP\_MREQ\_SOURCE:

?C: This symbol, if defined, indicates the availability of

?C: struct ip\_mreq\_source;

?C:.

?C:HAS\_IPV6\_MREQ:

```

?C: This
symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
?C:.
?H:#$d_socket HAS_SOCKET /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTRROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
socketlib=""
sockethdr=""
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
    echo "Looks like you have Berkeley networking support." >&4
    d_socket="$define"
?X: now check for advanced features
    if set setsockopt val -f; eval $csym; $val; then
d_oldsock="$undef"
        else
echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
d_oldsock="$define"
        fi
    else

```



```

?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
    if $contains socklib libc.list >/dev/null 2>&1; then
echo "Looks like you have Berkeley networking support." >&4
d_socket="$define"
: we will have to assume that it supports
the 4.2 BSD interface
d_oldsock="$undef"
    else
echo "You don't have Berkeley networking in libc$a..." >&4
?X: look for optional networking libraries
if test "X$d_socket" = "X$define"; then
    echo "...but you seem to believe that you have sockets." >&4
else
    for net in net socket
    do
if test -f $sysroot/usr/lib/lib$net$a; then
?X: space between two '(' needed for ksh
        ( ($nm $nm_opt $sysroot/usr/lib/lib$net$a | eval $nm_extract) || \
        $ar t $sysroot/usr/lib/lib$net$a 2>/dev/null >> libc.list
        if $contains socket libc.list >/dev/null 2>&1; then
d_socket="$define"
socketlib="-l$net"
case "$net" in
net)
    echo "...but the Wollongong group seems to have hacked it in." >&4
    sockethdr="-I$sysroot/usr/netinclude"
    ;;
esac
echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
if $contains setsockopt libc.list >/dev/null 2>&1; then
    d_oldsock="$undef"
else
    echo
"...using the old BSD 4.1c interface, rather than 4.2." >&4
    d_oldsock="$define"
fi
break
fi
done
if test "X$d_socket" != "X$define"; then
    echo "or anywhere else I see." >&4
    d_socket="$undef"
    d_oldsock="$undef"
fi

```

```
fi
fi
fi
```

```
@if HAS_SOCKETPAIR || d_socketpair
: see if socketpair exists
set socketpair d_socketpair
eval $inlibc
```

```
@end
```

```
echo "Checking the availability sa_len in the sock struct ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
return (sa.sa_len);
}
EOF
val="$undef"
set try; if eval $compile; then
val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try
```

```
echo "Checking the availability struct sockaddr_in6 ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
EOF
val="$undef"
set try; if eval $compile; then
val="$define"
fi
set d_sockaddr_in6;
eval $setvar
$rm_try
```

```
echo "Checking the availability struct sockaddr_storage ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
```

```

#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sator;
return (sator.ss_family);
}
EOF
val="$undef"
set try; if eval $compile; then
    val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

```

echo "Checking the availability sin6\_scope\_id in struct sockaddr\_in6 ..." >&4

```

$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
    val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

```

echo "Checking the availability struct ip\_mreq ..." >&4

```

$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

    val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

```

```
echo "Checking the availability struct ip_mreq_source ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
    val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try
```

```
echo "Checking the availability struct ipv6_mreq ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
    val="$define"
fi
set d_ipv6_mreq; eval $setvar
$rm_try
```

```
echo "Checking the availability struct ipv6_mreq_source ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
```

```
then
    val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try
```

?X: these constants are known to be troublesomely defined as enums

?X: so that ifdef will not work for detecting their presence.

echo "Checking the availability of certain socket constants..." >&4

for ENUM in MSG\_CTRUNC MSG\_DONTROUTE MSG\_OOB MSG\_PEEK MSG\_PROXY SCM\_RIGHTS; do

```
    enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
```

```
    $cat >try.c <<EOF
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
int main() {
```

```
    int i = $ENUM;
```

```
}
```

```
EOF
```

```
    val="$undef"
```

```
    set try; if eval $compile; then
```

```
val="$define"
```

```
fi
```

```
set d_${enum}; eval $setvar
```

```
$rm_try
```

```
done
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/d_socket.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_nanosleep: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_nanosleep:

?S: This variable conditionally defines HAS\_NANOSLEEP

?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.

?S:.

?C:HAS\_NANOSLEEP:

?C: This symbol, if defined, indicates that the nanosleep  
?C: system call is available to sleep with 1E-9 sec accuracy.  
?C:.  
?H:#\$d\_nanosleep HAS\_NANOSLEEP /\*\*/  
?H:.  
?LINT:set d\_nanosleep  
: see if nanosleep exists  
set nanosleep d\_nanosleep  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_nanosleep.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_strtoq: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_strtoq:  
?S: This variable conditionally defines the HAS\_STRTOQ symbol, which  
?S: indicates to the C program that the strtouq() routine is available.  
?S:.  
?C:HAS\_STRTOQ:  
?C: This symbol, if defined, indicates that the strtouq routine is  
?C: available to convert strings to long longs (quads).  
?C:.  
?H:#\$d\_strtoq HAS\_STRTOQ /\*\*/  
?H:.  
?LINT:set d\_strtoq  
: see if strtouq exists  
set strtouq d\_strtoq  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_strtoq.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strtod\_1: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtod\_1:

?S: This variable conditionally defines the HAS\_STRTOD\_L symbol, which

?S: indicates to the C program that the strtod\_l() routine is available.

?S:.

?C:HAS\_STRTOD\_L:

?C: This symbol, if defined, indicates that the strtod\_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtod\_1 HAS\_STRTOD\_L /\*\*/

?H:.

?LINT:set d\_strtod\_1

: see if strtod\_l exists

set strtod\_l d\_strtod\_1

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d\_strtod\_1.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sig\_name.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sig\_name.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 16:21:25 ram

?RCS: patch61: brand new algorithm for sig\_name and (new!) sig\_num

?RCS:

?RCS: Revision 3.0.1.4 1995/07/25 14:14:54 ram

?RCS: patch56: added <asm/signal.h> lookup for Linux

?RCS:

?RCS: Revision 3.0.1.3 1995/05/12 12:24:11 ram

?RCS: patch54: now looks for <linux/signal.h> too (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/06/20 07:06:57 ram

?RCS: patch30: final echo was missing to close

awk-printed string

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:17:55 ram

?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:47 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:sig\_name sig\_name\_init sig\_num sig\_num\_init sig\_count sig\_size: \  
 awk Signal Oldconfig rm

?MAKE: -pick add \$@ %<

?S:sig\_name:

?S: This variable holds the signal names, space separated. The leading  
 ?S: SIG in signal name is removed. A ZERO is prepended to the list.

?S: This is currently not used, sig\_name\_init is used instead.

?S:.

?S:sig\_name\_init:

?S: This variable holds the signal names, enclosed in double quotes and  
 ?S: separated by commas, suitable for use in the SIG\_NAME definition  
 ?S: below. A "ZERO" is prepended to the list, and the list is  
 ?S: terminated with a plain 0. The leading SIG in signal names  
 ?S: is removed. See sig\_num.

?S:.

?S:sig\_num:

?S: This variable holds the signal numbers, space separated. A ZERO is  
 ?S: prepended  
 to the list (corresponding to the fake SIGZERO).

?S: Those numbers correspond to the value of the signal listed  
 ?S: in the same place within the sig\_name list.

?S: This is currently not used, sig\_num\_init is used instead.

?S:.

?S:sig\_num\_init:

?S: This variable holds the signal numbers, enclosed in double quotes and  
 ?S: separated by commas, suitable for use in the SIG\_NUM definition  
 ?S: below. A "ZERO" is prepended to the list, and the list is  
 ?S: terminated with a plain 0.

?S:.

?S:sig\_count (sig\_name.U):

?S: This variable holds a number larger than the largest valid  
 ?S: signal number. This is usually the same as the NSIG macro.

?S:.

?S:sig\_size:

?S: This variable contains the number of elements of the sig\_name  
 ?S: and sig\_num arrays.

?S:.

?C:SIG\_NAME:

?C: This symbol contains a list of signal names in order of  
 ?C: signal number. This is intended



?C: to be used as a static array initialization, like this:  
?C: char \*sig\_name[] = { SIG\_NAME };  
?C: The signals in the list are separated  
with commas, and each signal  
?C: is surrounded by double quotes. There is no leading SIG in the signal  
?C: name, i.e. SIGQUIT is known as "QUIT".  
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,  
?C: etc., where nn is the actual signal number (e.g. NUM37).  
?C: The signal number for sig\_name[i] is stored in sig\_num[i].  
?C: The last element is 0 to terminate the list with a NULL. This  
?C: corresponds to the 0 at the end of the sig\_name\_init list.  
?C: Note that this variable is initialized from the sig\_name\_init,  
?C: not from sig\_name (which is unused).  
?C:.  
?C:SIG\_NUM:  
?C: This symbol contains a list of signal numbers, in the same order as the  
?C: SIG\_NAME list. It is suitable for static array initialization, as in:  
?C: int sig\_num[] = { SIG\_NUM };  
?C: The signals in the list are separated with commas, and the indices  
?C: within that list and the SIG\_NAME list match, so it's easy to compute  
?C: the signal name from a number or vice versa at the price of a small  
?C: dynamic  
linear lookup.  
?C: Duplicates are allowed, but are moved to the end of the list.  
?C: The signal number corresponding to sig\_name[i] is sig\_number[i].  
?C: if (i < NSIG) then sig\_number[i] == i.  
?C: The last element is 0, corresponding to the 0 at the end of  
?C: the sig\_name\_init list.  
?C: Note that this variable is initialized from the sig\_num\_init,  
?C: not from sig\_num (which is unused).  
?C:.  
?C:SIG\_COUNT:  
?C: This variable contains a number larger than the largest  
?C: signal number. This is usually the same as the NSIG macro.  
?C:.  
?C:SIG\_SIZE:  
?C: This variable contains the number of elements of the SIG\_NAME  
?C: and SIG\_NUM arrays, excluding the final NULL entry.  
?C:.  
?H:#define SIG\_NAME \$sig\_name\_init /\*\*/  
?H:#define SIG\_NUM \$sig\_num\_init /\*\*/  
?H:#define SIG\_COUNT \$sig\_count /\*\*/  
?H:#define SIG\_SIZE \$sig\_size /\*\*/  
?H:.  
?T:i doinit  
?F:!= !signal\_cmd  
?X: signal.cmd creates a file signal.lst which has two columns:  
?X: NAME number, e.g.

```

?X: HUP 1
?X: The list is
    sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*) case "$sig_num_init" in
    "|*,*) doinit=yes ;;
    esac ;;
esac
case "$doinit" in
yes)
echo "Generating a list of signal names and numbers..." >&4
. ./signal_cmd
sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
sig_name=`$awk 'BEGIN { printf "ZERO " }
    !/^NSIG/ { printf "%s ", $1 }' signal.lst`
sig_num=`$awk 'BEGIN { printf "0 " }
    !/^NSIG/ { printf "%d ", $2 }' signal.lst`
sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
    !/^NSIG/ { printf "\"%s\", ", $1 }
    END { printf "0\n" }' signal.lst`
sig_num_init=`$awk 'BEGIN { printf "0, " }
    !/^NSIG/ { printf "%d, ", $2 }
    END { printf "0\n" }' signal.lst`
;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
for (i = 1; i <= NF; i++) {
    name
= "SIG" $i " "
    linelen = linelen + length(name)
    if (linelen > 70) {
        printf "\n"
        linelen = length(name)
    }
    printf "%s", name
}
printf "\n"
}'

```

```
sig_size=`echo $sig_name | awk '{print NF}'`  
$rm -f signal signal.c signal.awk signal.lst signal_cmd  
;;  
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/sig_name.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: sysman.U,v \$

?RCS: Revision 3.0.1.2 1994/06/20 07:08:43 ram

?RCS: patch30: now explicitly states that /usr/man/man1 is the default

?RCS: patch30: added /usr/local/man/man1 to the search list

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:13:50 ram

?RCS: patch10: added support for /local/man/man1 (WAD)

?RCS: patch10: added temporary syspath variable to cut down on line length

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:55 ram

?RCS: Baseline for dist 3.0 netwide

release.

?RCS:

?MAKE:sysman: test Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:sysman:

?S: This variable holds the place where the manual is located on this

?S: system. It is not the place where the user wants to put his manual

?S: pages. Rather it is the place where Configure may look to find manual

?S: for unix commands (section 1 of the manual usually). See mansrc.

?S:.

?T:syspath

: determine where manual pages are on this system

echo " "

case "\$sysman" in

")

syspath='/usr/share/man/man1 /usr/man/man1'

syspath="\$syspath /usr/man/mann /usr/man/man1 /usr/man/local/man1"

```

syspath="$syspath /usr/man/u_man/man1"
syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
sysman=`./loc . /usr/man/man1 $syspath`
;;
esac
if $test -d "$sysman"; then
  echo "System manual is in $sysman." >&4
else
  echo "Could not find manual pages in source form."
  >&4
fi

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/sysman.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_eaccess: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_eaccess:

?S: This variable conditionally defines the HAS\_EACCESS symbol, which

?S: indicates to the C program that the eaccess() routine is available.

?S:.

?C:HAS\_EACCESS :

?C: This symbol, if defined, indicates that the eaccess routine is

?C: available to do extended access checks.

?C:.

?H:#\$d\_eaccess HAS\_EACCESS /\*\*/

?H:.

?LINT:set d\_eaccess

: see if eaccess exists

set eaccess d\_eaccess

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/acl/d\_eaccess.U

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1 1999/07/08 18:27:51 doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2 1995/01/30 14:44:05 ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
Revision 3.0.1.1 1994/08/29 16:31:34 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package. Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc. It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package. Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix" /**/
?H:.
:

```

determine root of directory hierarchy where package will be installed.

```
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
;;
*) dflt="$prefix"
;;
esac
$cat <<EOM
```

By default, \$package will be installed in \$dflt/bin, manual pages under \$dflt/man, etc..., i.e. with \$dflt as prefix for all installation directories. Typically this is something like /usr/local. If you wish to have binaries under /usr/bin but other parts of the installation under /usr/local, that's ok: you will be prompted separately for each of the installation directories, the prefix being only used to set the defaults.

```
EOM
fn=d~
rp='Installation prefix to use?'
./getfile
oldprefix=""
case "$prefix" in
") ;;
*) case "$ans" in
"$prefix") ;;
*) oldprefix="$prefix";;
esac
;;
esac

case "$ans" in
*?) prefix=`echo "$ans" | sed 's/.$//`
;;
*) prefix="$ans"
esac

case "$ansexp" in
*?) prefixexp=`echo "$ansexp" | sed 's/.$//`
;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/prefix.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_sysstatfs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:39 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
```

?C:I\_SYS\_TIMES (I\_SYSTIMES):

?C: This symbol, if defined, indicates to the C program that it should

?C: include <sys/times.h>.

?C:.

?H:#\$i\_systimes I\_SYS\_TIMES /\*\*/

?H:.

?LINT:set

i\_systimes

: see if this is a sys/times.h system

set sys/times.h i\_systimes

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_systimes.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_scannl.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:41:27 ram

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.1 1995/07/25 13:59:12 ram

?RCS: patch56: made cc and ccflags optional dependencies

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:00 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Does the scanf routine read "\n" correctly ? This is was not

?X: the case on AIX...

?X:

?MAKE:d\_scannl: cat rm Setvar Compile run

?MAKE: -pick

add \$@ %<

?S:d\_scannl:

?S: This variable conditionally defines SCAN\_NL, which indicates

?S: whether the C library routines scanf() and friends can deal with

?S: a '\n' in the input correctly. They do most of the time.



```

?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let''''s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
int i = 0, j = 0;
scanf("%d\n%d", &i, &j);
if (j != 3)
exit(1);
exit(0);
}
EOCP
set try
if eval $compile_ok; then
if $run ./try <<'EOD'
2
3
EOD
then
echo "Yes, it does."
else
echo
"No, it doesn't."
val="$undef"
fi
else
echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/compline/d\_scannl.U

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?RCS: \$Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Tr.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 18:00:54 ram

?RCS: patch43: forgot to quote \$@ to protect against "evil" characters

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 15:58:35 ram

?RCS: patch36: created

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in in order

?X: to do a character translation. It catches translations to uppercase or

?X: to lowercase, and then invokes the real tr to perform the job.

?X:

?X: This unit is necessary

on HP machines (HP strikes again!) with non-ascii

?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z

?X: covers not the whole alphabet but lots of special chars. This was reported

?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.

?X:

?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include

?X: us in their dependency and use ./tr instead.

?X:

?MAKE:Tr: startsh tr eunicefix

?MAKE: -pick add \$@ %<

?F:./tr

?T:up low

: see whether [:lower:] and [:upper:] are supported character classes

echo " "

case "`echo AbyZ | \$tr '[:lower:]' '[:upper:]' 2>/dev/null`"-`echo AbyZ | \$tr '[:upper:]' '[:lower:]' 2>/dev/null`" in  
ABYZ-abyz)

echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4

up='[:upper:]'

low='[:lower:]'

::

\*) # There is a discontinuity in EBCDIC between 'R' and 'S'

# (0xd9 and 0xe2), therefore that is a nice testing point.

```

if test "X$up" = X -o "X$low" = X; then
  case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
in
  rs) up='[A-Z]'
  low='[a-z]'
  ;;
  esac
fi
if test "X$up" = X -o "X$low" = X; then
  case "`echo RS | $tr R-S r-s 2>/dev/null`" in
  rs) up='A-Z'
  low='a-z'
  ;;
  esac
fi
if test "X$up" = X -o "X$low" = X; then
  case "`echo RS | od -x 2>/dev/null`" in
  *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
    rs) up='[A-IJ-RS-Z]'
    low='[a-ij-rs-z]'
    ;;
    esac
  fi
  if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
    rs) up='A-IJ-RS-Z'
    low='a-ij-rs-z'
    ;;
    esac
  fi
  ;;
  esac
fi
esac
case "`echo RS | $tr \"\$up\" \"\$low\" 2>/dev/null`" in
rs)
  echo "Using $up and $low to convert case." >&4
  ;;
*)
  echo "I don't know how to translate letters from upper to lower case." >&4
  echo "Your tr is not acting any way I know of." >&4
  exit 1
  ;;
esac
:

```

```
set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "$1\$2" in
[A-Z][a-z]) exec $tr 'Sup' 'Slow';;
[a-z][A-Z]) exec $tr 'Slow' 'Sup';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$unicefix tr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Tr.U
```

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_isfinitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isfinitel:

?S: This variable conditionally defines the HAS\_ISFINITEL symbol, which

?S: indicates to the C program that the isfinitel() routine is available.

?S:.

?C:HAS\_ISFINITEL:

?C: This symbol, if defined, indicates that the isfinitel routine is

?C: available to check whether a long double is finite.

?C: (non-infinity non-NaN).

?C:.

?H:#\$d\_isfinitel HAS\_ISFINITEL /\*\*/

?H:.

?LINT:set d\_isfinitel

: see if isfinitel exists

set isfinitel d\_isfinitel

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_isfinitel.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
 ?RCS:  
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 ?RCS: that same Artistic Licence; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_getpgrp2.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:06:15 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:d\_getpgrp2: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_getpgrp2:  
 ?S: This variable conditionally defines the HAS\_GETPGRP2 symbol, which  
 ?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine  
 ?S: is available to get the current process group.  
 ?S:.  
 ?C:HAS\_GETPGRP2 (GETPGRP2):  
 ?C: This symbol, if defined, indicates that the  
 getpgrp2() (as in DG/UX)  
 ?C: routine is available to get the current process group.  
 ?C:.  
 ?H:#\$d\_getpgrp2 HAS\_GETPGRP2 /\*\*/  
 ?H:.  
 ?LINT:set d\_getpgrp2  
 : see if getpgrp2 exists  
 set getpgrp2 d\_getpgrp2  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_getpgrp2.U

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?RCS: \$Id: d\_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi \$  
 ?RCS:  
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 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_sigvec.U,v \$

```

?RCS: Revision 3.0.1.1 1997/02/28 15:45:37 ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
?C: sigstack(). This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then

```

```

echo 'sigvector() found--you must be running HP-UX.' >&4
val="$define"; set d_sigvectr; eval $setvar
val="$define"; set d_sigvec; eval $setvar
else
: try the original name
d_sigvectr="$undef"
if set sigvec val -f d_sigvec; eval $csym; $val; then
echo 'sigvec() found.' >&4
val="$define"; set d_sigvec; eval $setvar
else
echo 'sigvec() not found--race conditions with signals may occur.' >&4
val="$undef"; set d_sigvec; eval $setvar
fi
fi

```

```

@end
@if d_sigintrp || HAS_SIGINTRP
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc

```

```
@end
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_sigvec.U
```

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```

?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2 1994/08/29 16:20:52 ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 06:59:59 ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:

```

?S: This variable defines Fpos\_t to be something like fpos\_t, long,

?S: uint, or whatever type is used to declare file positions in libc.

?S:.

?C:Fpos\_t:

?C: This symbol holds

the type used to declare file positions in libc.

?C: It can be fpos\_t, long, uint, etc... It may be necessary to include

?C: <sys/types.h> to get any typedef'ed information.

?C:.

?H:#define Fpos\_t \$fpostype /\* File position type \*/

?H:.

?LINT:set fpostype

: see what type file positions are declared as in the library

rp="What is the type for file position used by fsetpos()?"

set fpos\_t fpostype long stdio.h sys/types.h

eval \$typedef\_ask

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/fpostype.U

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?RCS: \$Id: d\_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: d\_flexfnam.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:04 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_flexfnam: cat rm test Setvar

?MAKE: -pick add \$@ %<

?S:d\_flexfnam:

?S: This variable conditionally defines the FLEXFILENAMES symbol, which

?S: indicates that the system supports filenames longer than 14 characters.

?S:.

?C:FLEXFILENAMES:

?C: This symbol, if defined, indicates that the system supports filenames

?C: longer than 14

characters.

?C:.

?H:#\$d\_flexfnam FLEXFILENAMES /\*\*/



```

?H:
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
first=123456789abcdef
$rm -f $first
if (echo hi >$first) 2>/dev/null; then
if $test -f 123456789abcde; then
    echo 'You cannot have filenames longer than 14 characters. Sigh.'>&4
    val="$undef"
else
    echo 'You can have filenames longer than 14 characters.'>&4
    val="$define"
fi
else
$cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
    val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf 123456789abcde*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/d_flexfnam.U

```

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```

?RCS: $Id: d_ctermid_r.U,v 0RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
    usethreads extern_C
?MAKE: -pick add $@ %<

```

?S:d\_ctermid\_r:  
 ?S: This variable conditionally defines the HAS\_CTERMID\_R symbol,  
 ?S: which indicates to the C program that the ctermid\_r()  
 ?S: routine is available.  
 ?S:.  
 ?S:ctermid\_r\_proto:  
 ?S: This variable encodes the prototype of ctermid\_r.  
 ?S: It is zero if d\_ctermid\_r is undef, and one of the  
 ?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_ctermid\_r  
 ?S: is defined.  
 ?S:.  
 ?C:HAS\_CTERMID\_R:  
 ?C: This symbol, if defined, indicates that the ctermid\_r routine  
 ?C: is available to ctermid re-entrantly.  
 ?C:.  
 ?C:CTERMID\_R\_PROTO:  
 ?C: This  
 symbol encodes the prototype of ctermid\_r.  
 ?C: It is zero if d\_ctermid\_r is undef, and one of the  
 ?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_ctermid\_r  
 ?C: is defined.  
 ?C:.  
 ?H:#\$d\_ctermid\_r HAS\_CTERMID\_R /\*\*/  
 ?H:#define CTERMID\_R\_PROTO \$ctermid\_r\_proto /\*\*/  
 ?H:.  
 ?T:try hdrs d\_ctermid\_r\_proto  
 : see if ctermid\_r exists  
 set ctermid\_r d\_ctermid\_r  
 eval \$inlibc  
 case "\$d\_ctermid\_r" in  
 "\$define")  
 hdrs="\$i\_systypes sys/types.h define stdio.h "  
 case "\$d\_ctermid\_r\_proto:\$usetthreads" in  
 ":define") d\_ctermid\_r\_proto=define  
 set d\_ctermid\_r\_proto ctermid\_r \$hdrs  
 eval \$hasproto ;;  
 \*) ;;  
 esac  
 case "\$d\_ctermid\_r\_proto" in  
 define)  
 case "\$ctermid\_r\_proto" in  
 "|0) try='char\* ctermid\_r(char\*);'  
 ./protochk "\$extern\_C \$try" \$hdrs && ctermid\_r\_proto=B\_B ;;  
 esac  
 case "\$ctermid\_r\_proto" in  
 "|0) d\_ctermid\_r=undef  
 ctermid\_r\_proto=0  
 echo "Disabling ctermid\_r, cannot determine prototype." >&4 ;;

```

*) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
*)
ctermid_r_proto="REENTRANT_PROTO_${ctermid_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susetthreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
  esac
  ;;
*) ctermid_r_proto=0
  ;;
  esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_ctermid_r.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:24:55 ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:02:58 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:28 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<

```

?S:byteorder:

?S: This

variable holds the byte order in a UV. In the following,

?S: larger digits indicate more significance. The variable byteorder

?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,

?S: or 87654321 on a Cray ... or 3412 with weird order !

?S:.

?C:BYTEORDER:

?C: This symbol holds the hexadecimal constant defined in byteorder,

?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...

?C: If the compiler supports cross-compiling or multiple-architecture

?C: binaries, use compiler-defined macros to

?C: determine the byte order.

?C:.

```
?H:?%<:#if defined(MULTIARCH)
```

```
?H:?%<:# ifdef __LITTLE_ENDIAN__
```

```
?H:?%<:# if LONGSIZE == 4
```

```
?H:?%<:# define BYTEORDER 0x1234
```

```
?H:?%<:# else
```

```
?H:?%<:# if LONGSIZE == 8
```

```
?H:?%<:# define BYTEORDER 0x12345678
```

```
?H:?%<:# endif
```

```
?H:?%<:# endif
```

```
?H:?%<:# else
```

```
?H:?%<:# ifdef __BIG_ENDIAN__
```

```
?H:?%<:# if LONGSIZE == 4
```

```
?H:?%<:# define BYTEORDER 0x4321
```

```
?H:?%<:# else
```

```
?H:?%<:# if LONGSIZE
```

```
== 8
```

```
?H:?%<:# define BYTEORDER 0x87654321
```

```
?H:?%<:# endif
```

```
?H:?%<:# endif
```

```
?H:?%<:# endif
```

```
?H:?%<:# endif
```

```
?H:?%<:#else
```

```
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
```

```
?H:?%<:#endif
```

?H:.

?T:xxx\_prompt

?F:!try

: check for ordering of bytes in a UV

echo " "

case "\$multiarch" in

\*\$define\*)

\$cat <<EOM

You seem to be doing a multiarchitecture build,

skipping the byteorder check.

EOM

```
byteorder='ffff'  
;;  
*)  
case "$byteorder" in  
")  
$cat <<'EOM'
```

In the following, larger digits indicate more significance. A big-endian machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other machines may have weird orders like 3412. A Cray will report 87654321, an Alpha will report 12345678. If the test program works the default is probably right.

I'm now running the test program...

EOM

```
$cat >try.c <<EOCP  
#include <stdio.h>  
#ifdef I_STDLIB  
#include <stdlib.h>  
#endif  
#include  
<sys/types.h>  
typedef $uvtype UV;  
int main()  
{  
int i;  
union {  
UV l;  
char c[$uvsize];  
} u;  
  
if ($uvsize > 4)  
u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;  
else  
u.l = (UV)0x04030201;  
for (i = 0; i < $uvsize; i++)  
printf("%c", u.c[i]+'0');  
printf("\n");  
exit(0);  
}  
EOCP  
xxx_prompt=y  
set try  
if eval $compile && $run ./try > /dev/null; then  
dflt=`$run ./try`  
case "$dflt" in
```

```

[1-4][1-4][1-4][1-4]12345678|87654321)
echo "(The test program ran ok.)"
echo "byteorder=$dflt"
xxx_prompt=n
;;
???|?????) echo "(The test program ran ok.)" ;;
*) echo "(The test program didn't run right for some reason.)" ;;
esac
else
dflt='4321'
cat <<'EOM'

```

(I can't seem to compile the test program. Guessing big-endian...)

```

EOM
fi
case "$xxx_prompt" in
y)
rp="What is the order of bytes in $vtype?"
./myread
byteorder="$ans"
;;
*) byteorder=$dflt
;;
esac
;;
esac
$rm_try
;;
esac

```

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/byteorder.U

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?RCS:

?MAKE:d\_frexp! Inlibc

?MAKE: -pick add \$@ %<

?S:d\_frexp!

?S: This variable conditionally defines the HAS\_FREXP symbol, which

?S: indicates to the C program that the frexp() routine is available.

?S:.

?C:HAS\_FREXPL:

?C: This symbol, if defined, indicates that the frexpl routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d\_frexp HAS\_FREXPL /\*\*/

?H:.

?LINT:set d\_frexp

: see if frexpl exists

set frexp d\_frexp

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_frexp.U

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?RCS: \$Id\$

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?RCS:

?MAKE:i\_netinettcp: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_netinettcp:

?S: This variable conditionally defines the I\_NETINET\_TCP symbol,

?S: and indicates whether a C program should include <netinet/tcp.h>.

?S:.

?C:I\_NETINET\_TCP:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <netinet/tcp.h>.

?C:.

?H:#\$i\_netinettcp I\_NETINET\_TCP /\*\*/

?H:.

?LINT:set i\_netinettcp

: see if inetinet/tcp.h is available

set inetinet/tcp.h i\_netinettcp

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_netinettcp.U

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```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3 1995/05/12 12:10:45 ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 16:09:37 ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:07:06 ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
?X: 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?H:#$d_casti32 CASTI32 /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.'>&4
if $test "$intsize" -ge 4; then
xxx=int
```



```

else
  xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
signal_t blech(int s) { exit(3); }
int main()
{
  $xxx i32;
  double f, g;
  int result = 0;
  char str[16];
  signal(SIGFPE, blech);

  /* Don't let compiler optimize the test away.
   Store the number
   in a writable string for gcc to pass to sscanf under HP-UX.
  */
  sprintf(str, "2147483647");
  sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
  g = 10 * f;
  i32 = ($xxx) g;

  /* x86 processors will probably give 0x8000 0000, which is a
   sign change. We don't want that. We want to mimic SPARC
   behavior here, which is to preserve the sign and give
   back 0x7fff ffff.
  */
  if (i32 != ($xxx) f)
    result |= 1;
  exit(result);
}
EOCP
set try
if eval $compile_ok; then
  $run ./try 2>/dev/null
  yyy=$?
else
  echo "(I can't seem to compile the test program--assuming it can't)"
  yyy=1
fi
case "$yyy" in

```

```
0) val="$define"
echo "Yup, it can."
;;
*) val="$undef"
echo "Nope, it can't."
;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_casti32.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:11:57 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF /**/
?H:.
```

```
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_setlnbuf.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: abortsig.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/10/29 16:02:19 ram
```

```
?RCS: patch36: call ./usg explicitly instead of relying on PATH
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:05:20 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
```

```
?MAKE: -pick add $@ %<
```

```
?S:abortsig:
```

```
?S: This variable holds the name of the signal used by the abort() call.
```

```
?S:.
```

```
?C:ABORTSIG:
```

```
?C: This symbol holds the signal number (symbol) used by the abort() call. To
```

```
?C: actually
```

```
define the signal symbol, <signal.h> should be included.
```

```
?C:.
```

```
?H:#define ABORTSIG $abortsig /**/
```

```
?H:.
```

```
?T:signal
```

```
: which signal is sent by abort ?
```

```
echo " "
```

```
case "$abortsig" in
```

```
")
```

```
echo "Checking to see which signal is sent to the process by abort()..." >&4
```

```
echo "abort" > abort.sh
```

```
chmod +x abort.sh
```

```
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
```

```

for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
    *) $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler */
int main()
{
#ifdef $signal
  signal($signal, caught);
#endif
  if (-1 == abort())
    exit(1);
  exit(1);
}
EOP

```

?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.

```

if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
  (./abort.sh) >/dev/null 2>&1
  case $? in
    0) abortsig="$signal";;
    esac
  fi
  ;;
  esac
done
;;
esac
case "$abortsig" in
  *) echo
  "(I wasn't able to compute the signal name--guessing)"
  if ./usg; then
    dflt="SIGIOT"
  else
    dflt="SIGILL"
  fi;;
  *) dflt="$abortsig"
  ;;
  esac
rp="Which signal does abort() send to the process (signal name)?"
./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/abortsig.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fchdir.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_off64_t: \
Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T /**/
```

```

?H:
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <unistd.h>
int main() { off64_t x = 7; }
EOCP
set try
if eval $compile; then
  val="$define"
  echo "You have off64_t."
else
  val="$undef"
  echo "You do not have off64_t."
  case "$lseeksize" in
  8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
  esac
fi
$rm_try
set
  d_off64_t
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_off64_t.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp \$

?RCS:

?RCS: Copyright (c) 2008, H.Merijn Brand

?RCS:

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?RCS: of the source tree for dist 3.5.

?RCS:

?MAKE:i\_mallocmalloc: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_mallocmalloc:

?S: This variable conditionally defines the I\_MALLOCMALLOC symbol,

?S: and indicates whether a C program should include <malloc/malloc.h>.

?S:.

?C:I\_MALLOCMALLOC:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <malloc/malloc.h>.

?C:.

?H:#\$i\_mallocmalloc I\_MALLOCMALLOC /\*\*/

?H:.

?LINT:set i\_mallocmalloc

: see if malloc/malloc.h has to be included

set malloc/malloc.h i\_mallocmalloc

eval

\$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_mallocmalloc.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fmin:

?S: This variable conditionally defines the HAS\_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS\_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d\_fmin HAS\_FMIN /\*\*/

?H:.

?LINT:set d\_fmin

: see if fmin exists

set fmin d\_fmin

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fmin.U

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017-2018, H.Merijn Brand

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:  
?MAKE:d\_dup3: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_dup3:  
?S: This variable conditionally defines HAS\_DUP3 if dup3() is  
?S: available to duplicate file descriptors.  
?S:.  
?C:HAS\_DUP3:  
?C: This symbol, if defined, indicates that the dup3 routine is  
?C: available to duplicate file descriptors.  
?C:.  
?H:#\$d\_dup3 HAS\_DUP3 /\*\*/  
?H:.  
?LINT:set d\_dup3  
: see if dup3 exists  
set dup3 d\_dup3  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_dup3.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Cppsym.U,v \$

?RCS: Revision 3.0.1.5 1995/05/12 11:59:11 ram

?RCS: patch54: split awk command onto two lines for older awks (ADO)

?RCS:

?RCS: Revision 3.0.1.4 1995/01/11 14:55:57 ram

?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI

?RCS: patch45: added more cpp symbols (JHI)

?RCS:

?RCS: Revision 3.0.1.3 1994/10/29 15:51:32 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: new symbols ardent and titan (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/06/20

06:53:32 ram

?RCS: patch30: extended cpp symbol lookup list (JHI)



?RCS: patch30: renamed attrlist symbol into al for brevity

?RCS:

?RCS: Revision 3.0.1.1 1993/12/15 08:14:14 ram

?RCS: patch15: added new cpp symbols \_\_bsdi\_\_ and BSD\_NET2

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:50 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit produces a shell script called Cppsym, which can be used to

?X: determine whether any in a list of symbols is defined by the C compilation

?X: chain (C preprocessor symbols plus C compiler native ones).

?X: It can determine the status of any symbol, though the symbols in \$al

?X: are more easily determined. If you want to add to \$al you can do

?X: it in Myinit.U.

?X:

?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \  
 eunicefix Guess awk cat tr sed sort rm startsh osname \  
 +cc gccversion test comm uniq echo Options trnl \  
 optimize cflags ldflags libs

?MAKE: -pick add \$@ %<

?S:ccsymbols:

?S: The variable contains the symbols

defined by the C compiler alone.

?S: The symbols defined by cpp or by cc when it calls cpp are not in

?S: this list, see cppsymbols and cppccsymbols.

?S: The list is a space-separated list of symbol=value tokens.

?S:.

?S:cppsymbols:

?S: The variable contains the symbols defined by the C preprocessor

?S: alone. The symbols defined by cc or by cc when it calls cpp are

?S: not in this list, see ccsymbols and cppccsymbols.

?S: The list is a space-separated list of symbol=value tokens.

?S:.

?S:cppccsymbols:

?S: The variable contains the symbols defined by the C compiler

?S: when it calls cpp. The symbols defined by the cc alone or cpp

?S: alone are not in this list, see ccsymbols and cppsymbols.

?S: The list is a space-separated list of symbol=value tokens.

?S:.

?T:also symbols i postprocess\_cc\_v flags

?F:./Cppsym

?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own

: determine known pre-processor and compiler symbols

echo " "

\$echo "Guessing which symbols your C compiler and preprocessor

define..." >&4

?X:

?X: The symbol list is in alpha order for ease of maintenance...

?X:

?X: Lots of new symbols (mostly rummaged from gcc), courtesy of

?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94

?X:

?X: If your symbol is mixed case, just add it as-is.

?X: All symbols will be transformed to both all-lower and all-upper.

?X: Also drop any leading/trailing underscores, the scan will try all those.

?X:

```
$cat <<'EOSH' > Cppsym.know
```

```
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
```

```
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
```

```
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
```

```
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
```

```
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
```

```
BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
```

```
bull c cadmus clipper CMU COFF COMPILER_VERSION
```

```
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
```

```
CYGBIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
```

```
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
```

```
FILE_OFFSET_BITS
```

```
FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
```

```
GLIBC GLIBC_MINOR
```

```
GNU_SOURCE GNUMC GNUMC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
```

```
H3050R H3050RX hbulx20 hcx host_mips
```

```
hp200 hp300 hp700 HP700 hp800 hp9000
```

```
hp9000s200 hp9000s300 hp9000s400 hp9000s500
```

```
hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
```

```
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
```

```
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
```

```
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
```

```
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
```

```
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
```

```
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
```

```
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
```

```
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
```

```
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
```

```
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
```

```
MATH_HAS_NO_SIDE_EFFECTS
```

```
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
```

```
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
```

```
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
```

```
MIPS_SZLONG
```

```
MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
```

```
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
```

```
NetBSD news1500 news1700 news1800 news1900 news3700
```

```
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
```

```
ns32016 ns32332 ns32k nsc32000
```

OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF\_SOURCE  
pa\_risc PA\_RISC1\_1 PA\_RISC2\_0 PARAGON parisc  
pc532 pdp11 PGC PIC plexus PORTAR posix  
POSIX1B\_SOURCE POSIX2\_SOURCE POSIX4\_SOURCE  
POSIX\_C\_SOURCE POSIX\_SOURCE POWER  
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000  
riscix riscos RT S390 SA110 scs SCO sequent sgi SGL\_SOURCE SH3 sinix  
SIZE\_INT SIZE\_LONG SIZE\_PTR SOCKET\_SOURCE SOCKETS\_SOURCE  
sony sony\_news sonyrisc sparc sparclite spectrum  
stardent stdc STDC\_EXT stratos sun sun3 sun386  
Sun386i svr3 svr4 SVR4\_2 SVR4\_SOURCE svr5  
SX system SYSTYPE\_BSD SYSTYPE\_BSD43 SYSTYPE\_BSD44  
SYSTYPE\_SVR4 SYSTYPE\_SVR5 SYSTYPE\_SYSV SYSV SYSV3 SYSV4 SYSV5  
sysV68 sysV88 Tek4132 Tek4300 titan  
TM3200 TM5400 TM5600  
tower tower32 tower32\_200 tower32\_600 tower32\_700  
tower32\_800  
tower32\_850 tss  
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5  
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK  
unix UNIX95 UNIX99 unixpc unos  
USE\_BSD USE\_FILE\_OFFSET64 USE\_GNU USE\_ISOC9X USE\_LARGEFILE USE\_LARGEFILE64  
USE\_MISC USE\_POSIX USE\_POSIX199309 USE\_POSIX199506 USE\_POSIX2  
USE\_REENTRANT USE\_SVID USE\_UNIX98 USE\_XOPEN USE\_XOPEN\_EXTENDED  
USGr4 USGr4\_2  
Utek UTeK UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286  
XOPEN\_SOURCE XOPEN\_SOURCE\_EXTENDED XPG2 XPG2\_EXTENDED  
XPG3 XPG3\_EXTENDED XPG4 XPG4\_EXTENDED  
z8000  
EOSH  
?X: Maybe put other stuff here too.  
cat <<EOSH >>Cppsym.know  
\$osname  
EOSH  
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a  
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b  
\$cat Cppsym.know > Cppsym.c  
\$cat Cppsym.a Cppsym.b Cppsym.c | str ' ' \$trnl | \$sort | \$uniq > Cppsym.know  
\$rm -f Cppsym.a Cppsym.b Cppsym.c  
cat <<EOSH > Cppsym  
\$startsh  
if \$test \$# -gt 0; then  
  echo \$# | \$tr " " "\$trnl" | ./Cppsym.try > Cppsym.got  
  if \$test -s Cppsym.got; then  
    \$rm -f Cppsym.got  
    exit 0  
  fi  
\$rm -f Cppsym.got

```

    exit 1
else
    $tr " " "$trml" | ./Cppsym.try
    exit 0
fi
EOSH
chmod +x Cppsym
$unicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
    printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%ld\n\", (long)%s);\n#else\nprintf(\"%s\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
    printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%ld\n\",
(long)_%s);\n#else\nprintf(\"_%s\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
    printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%ld\n\",
(long)_%s);\n#else\nprintf(\"__%s\n\");\n#endif\n#endif\n",
$1, $1, $1, $1, $1
    printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%ld\n\",
(long)_%s__);\n#else\nprintf(\"__%s__\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
case "$osname-$gccversion" in
irix-) flags="$flags -woff 1178" ;;
os2-*) flags="$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize $flags $ldflags try.c $libs && $run ./try
EOSH
chmod +x Cppsym.try
$unicefix Cppsym.try
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!

```

```

postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|${tr} , ' "' ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in ` $cc -v -c tmp.c 2>&1 $postprocess_cc_v `
do
case "$i" in
-D*) echo "$i" | $sed 's/^-D//';;
-A*) $test "$gccversion" && echo "$i" | $sed 's/^-A//' | $sed 's/(.*)((.*))\^1=2/';;
esac
done
$rm
-f try.c
EOS
postprocess_cc_v="
chmod +x ccsym
$unicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file. ($sort apparently
?X: doesn't care.) --AD 14 July 1998
if $test -s ccsym1.raw; then
    $sort ccsym1.raw | $uniq >ccsym.raw
else
    mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '^=/ { print $0; next }
{ print $0 "=1" }' ccsym.raw >ccsym.list
$awk '^=/ { print $0; next }
{ print $0 "=1" }' Cppsym.true >ccsym.true
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
echo "Your C compiler doesn't seem to define any symbols!" >&4
echo " "
echo "However, your C preprocessor defines the following symbols:"
$cat Cppsym.true
    ccsymbols="
cppsymbols=`$cat Cppsym.true`

```

```

    cppsymbols=`echo
$cppsymbols`
cppccsymbols="$cppsymbols"
else
if $test -s ccsym.com; then
echo "Your C compiler and pre-processor define these symbols:"
$sed -e 's/(.*)=.*/\1/' ccsym.com
also='also '
symbols='ones'
cppccsymbols=`$cat ccsym.com`
cppccsymbols=`echo $cppccsymbols`
$test "$$silent" || sleep 1
fi
if $test -s ccsym.cpp; then
$test "$$also" && echo " "
echo "Your C pre-processor ${also}defines the following symbols:"
$sed -e 's/(.*)=.*/\1/' ccsym.cpp
also='further '
cppsymbols=`$cat ccsym.cpp`
cppsymbols=`echo $cppsymbols`
$test "$$silent" || sleep 1
fi
if $test -s ccsym.own; then
$test "$$also" && echo " "
echo "Your C compiler ${also}defines the following cpp symbols:"
$sed -e 's/(.*)=1/\1/' ccsym.own
$sed -e 's/(.*)=.*/\1/' ccsym.own | $uniq >>Cppsyes.true
    ccsymbols=`$cat ccsym.own`
    ccsymbols=`echo $ccsymbols`
$test "$$silent" || sleep 1
fi
fi
$rm -f Cppsyes.know Cppsyes.true

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Cppsyes.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_pause.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_pause.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:09:54 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_pause: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_pause:  
?S: This variable conditionally defines the HAS\_PAUSE symbol, which  
?S: indicates to the C program that the pause() routine is available  
?S: to suspend a process until a signal is received.  
?S:.  
?C:HAS\_PAUSE :  
?C: This symbol,  
if defined, indicates that the pause routine is  
?C: available to suspend a process until a signal is received.  
?C:.  
?H:#\$d\_pause HAS\_PAUSE /\*\*/  
?H:.  
?LINT:set d\_pause  
: see if pause exists  
set pause d\_pause  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_pause.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_munmap.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_munmap.U,v \$  
?RCS: Revision 3.0.1.1 1993/12/15 08:19:22 ram  
?RCS: patch15: created  
?RCS:  
?MAKE:d\_munmap: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_munmap:

?S: This variable conditionally defines HAS\_MUNMAP if munmap() is

?S: available to unmap a region mapped by mmap().

?S:.

?C:HAS\_MUNMAP:

?C: This symbol, if defined, indicates that the munmap system call is

?C: available to unmap a region, usually mapped by mmap().

?C:.

?H:#\$d\_munmap HAS\_MUNMAP /\*\*/

?H:.

?LINT:set

d\_munmap

: see if munmap exists

set munmap d\_munmap

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_munmap.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_gethent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_gethent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_gethent:

?S: This variable conditionally defines HAS\_GETHOSTENT if gethostent() is

?S: available to dup file descriptors.

?S:.

?C:HAS\_GETHOSTENT (GETHOSTENT):

?C: This symbol, if defined, indicates that the gethostent routine is

?C: available to lookup host names in some data base or other.

?C:.

?H:#\$d\_gethent HAS\_GETHOSTENT /\*\*/

?H:.

?LINT:set



```
d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_gethent.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:39 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_systwgcf.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:22 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST /**/
?H:.
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
echo "You have sys_siglist[] for signal description." >&4
val="$define"
else
echo "You don't have sys_siglist[]." >&4
val="$undef"
fi
set d_siglist
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_siglist.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: Copyright (c) 2017, Lukas Mai
?RCS:
?RCS: You may distribute this file under the terms of either
?RCS: a) the "Artistic License" which comes with Perl, or

```

?RCS: b) the "Artistic License" which comes with dist, or

?RCS: c) the GNU General Public License as published by the Free

?RCS: Software Foundation; either version 1, or (at your option) any

?RCS: later version (see the file "Copying" that comes with the

?RCS: Perl distribution).

?RCS: Which one to use is your choice.

?RCS: See the U/README file.

?MAKE:d\_builtin\_add\_overflow d\_builtin\_sub\_overflow d\_builtin\_mul\_overflow : Compile Setvar cat run rm\_try

?MAKE: -pick add \$@ %<

?S:d\_builtin\_add\_overflow:

?S: This variable conditionally defines HAS\_BUILTIN\_ADD\_OVERFLOW, which

?S: indicates that the compiler supports \_\_builtin\_add\_overflow(x,y,&z)

?S: for safely adding x and y into z while checking for overflow.

?S:.

?S:d\_builtin\_sub\_overflow:

?S: This

variable conditionally defines HAS\_BUILTIN\_SUB\_OVERFLOW, which

?S: indicates that the compiler supports \_\_builtin\_sub\_overflow(x,y,&z)

?S: for safely subtracting y from x into z while checking for overflow.

?S:.

?S:d\_builtin\_mul\_overflow:

?S: This variable conditionally defines HAS\_BUILTIN\_MUL\_OVERFLOW, which

?S: indicates that the compiler supports \_\_builtin\_mul\_overflow(x,y,&z)

?S: for safely multiplying x and y into z while checking for overflow.

?S:.

?C:HAS\_BUILTIN\_ADD\_OVERFLOW:

?C: This symbol, if defined, indicates that the compiler supports

?C: \_\_builtin\_add\_overflow for adding integers with overflow checks.

?C:.

?C:HAS\_BUILTIN\_SUB\_OVERFLOW:

?C: This symbol, if defined, indicates that the compiler supports

?C: \_\_builtin\_sub\_overflow for subtracting integers with overflow checks.

?C:.

?C:HAS\_BUILTIN\_MUL\_OVERFLOW:

?C: This symbol, if defined, indicates that the compiler supports

?C: \_\_builtin\_mul\_overflow for multiplying integers with overflow checks.

?C:.

?H:#\$d\_builtin\_add\_overflow

HAS\_BUILTIN\_ADD\_OVERFLOW /\*\*/

?H:#\$d\_builtin\_sub\_overflow HAS\_BUILTIN\_SUB\_OVERFLOW /\*\*/

?H:#\$d\_builtin\_mul\_overflow HAS\_BUILTIN\_MUL\_OVERFLOW /\*\*/

?H:.

?F:!try

?LINT:set d\_builtin\_add\_overflow d\_builtin\_sub\_overflow d\_builtin\_mul\_overflow

: Look for GCC-style \_\_builtin\_add\_overflow

case "\$d\_builtin\_add\_overflow" in

)

echo " "

```

    echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
    $cat >try.c <<'EOCP'
int main(void) {
    const unsigned int uint_max = ~0u;
    int target_int = 0;
    if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
        return 1;
    }
    if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
        return 1;
    }
    if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
        return 1;
    }
    return 0;
}
EOCP
set try
if eval $compile && $run ./try; then
    echo "Your C compiler supports __builtin_add_overflow."
    val="$define"
else
    echo
    "Your C compiler doesn't seem to understand __builtin_add_overflow."
    val="$undef"
fi
;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
    echo " "
    echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
    $cat >try.c <<'EOCP'
int main(void) {
    const unsigned int uint_max = ~0u;
    int target_int = 0;
    if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
        return 1;
    }
    if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
        return 1;
    }
}

```

```

}
if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
    return 1;
}
return 0;
}
EOCP
set try
if eval $compile && $run ./try; then
    echo "Your C compiler supports __builtin_sub_overflow."
    val="$define"
else
    echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
    val="$undef"
fi
;;
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
    echo " "
    echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
    $cat >try.c <<'EOCP'
int main(void) {
    const unsigned int uint_max = ~0u;
    int target_int = 0;
    if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
        return 1;
    }
    if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
        return 1;
    }
    if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
        return 1;
    }
    return 0;
}
EOCP
set try
if eval $compile && $run ./try; then
    echo "Your C compiler supports __builtin_mul_overflow."
    val="$define"

```

```

else
    echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
    val="$undef"
fi
;;
*) val="$d_builtin_mul_overflow"
;;
esac

```

```

set d_builtin_mul_overflow
eval $setvar
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_builtin_overflow.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_signbit: nvtype Compile Setvar cat run rm\_try echo n c i\_sunmath

?MAKE: -pick add \$@ %<

?S:d\_signbit:

?S: This variable conditionally defines the HAS\_SIGNBIT symbol, which

?S: indicates to the C program that the signbit() routine is available

?S: and safe to use with perl's intern NV type.

?S:.

?C:HAS\_SIGNBIT:

?C: This symbol, if defined, indicates that the signbit routine is

?C: available to check if the given number has the sign bit set.

?C: This should include correct testing of -0.0. This will only be set

?C: if the signbit() routine is safe to use with the NV type used internally

?C: in perl. Users should call Perl\_signbit(), which will be #defined to

?C: the system's signbit() function or macro if this symbol is defined.

?C:.

?H:#\$d\_signbit

HAS\_SIGNBIT /\*\*/

?H:.

?F:!try

?LINT:set d\_signbit

: see if signbit exists

\$echo \$n "Checking to see if you have signbit() available to work on \$nvtype... \$c" >&4

\$cat >try.c <<EOCP

#\$i\_sunmath I\_SUNMATH

#include <math.h>

```

#ifdef I_SUNMATH /* Solaris special math library */
# include <sunmath.h>
#endif
#define NV $nvtype
int main(int argc, char **argv)
{
    NV x = 0.0;
    NV y = -1.0;
    if ((signbit(x) == 0) && (signbit(y) != 0))
return 0;
    else
return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
    if $run ./try; then
        $echo "Yes." >&4
    val="$define"
    else
        $echo "Signbit seems to be available, but doesn't work as I expected."
        $echo "I won't use it." >&4
    val="$undef"
    fi
else
    $echo "Nope." >&4
    dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_signbit.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_msgget.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_msgget.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:39 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_msgget: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_msgget:  
?S: This variable conditionally defines the HAS\_MSGGET symbol, which  
?S: indicates to the C program that the msgget() routine is available.  
?S:.  
?C:HAS\_MSGGET:  
?C: This symbol, if defined, indicates that the msgget() routine is  
?C: available to get a new message queue.  
?C:.  
?H:#\$d\_msgget  
HAS\_MSGGET /\*\*/  
?H:.  
?LINT:set d\_msgget  
: see if msgget exists  
set msgget d\_msgget  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_msgget.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_netdb.U,v \$  
?RCS:  
?RCS: Copyright (c) 1998 Andy Dougherty  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_netdb: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_netdb:  
?S: This variable conditionally defines the I\_NETDB symbol, and indicates  
?S: whether a C program should include <netdb.h>.  
?S:.  
?C:I\_NETDB:  
?C: This symbol, if defined, indicates that <netdb.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_netdb I\_NETDB /\*\*/  
?H:.  
?LINT:set i\_netdb  
: see if this is a netdb.h system



```
set netdb.h i_netdb
```

```
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_netdb.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longdbl.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?RCS: $Log: d_longdbl.U,v $
```

```
?RCS:
```

```
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \  
d_long_double_style_ieee d_long_double_style_ieee_doubledouble \  
d_long_double_style_ieee_extended d_long_double_style_ieee_std \  
d_long_double_style_vax: Compile Setvar Myread \  
Inlibc run echo cat rm_try test doublesize i_stdlib
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_longdbl:
```

```
?S: This variable conditionally defines HAS_LONG_DOUBLE if
```

```
?S: the long double type is supported.
```

```
?S:.
```

```
?S:d_ldexpl:
```

```
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
```

```
?S: indicates to the C program that the ldexpl() routine is available.
```

```
?S:.
```

```
?S:longdblsize:
```

```
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,  
which
```

```
?S: indicates to the C program how many bytes there are in a long double,
```

```
?S: if this system supports long doubles. Note that this is
```

```
?S: sizeof(long double), which may include unused bytes.
```

```
?S:.
```

```
?S:longdblkind:
```

```
?S: This variable, if defined, encodes the type of a long double:
```

```
?S: 0 = double,
```

```
?S: 1 = IEEE 754 128-bit little endian,
```

```
?S: 2 = IEEE 754 128-bit big endian,
```

```
?S: 3 = x86 80-bit little endian,
```

```
?S: 4 = x86 80-bit big endian,
```

```
?S: 5 = double-double 128-bit little endian,
```

```
?S: 6 = double-double 128-bit big endian,
```

```
?S: 7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
```

?S: 8 = 128-bit mixed-endian double-double (64-bit BEs in LE),  
?S: 9 = 128-bit PDP-style mixed-endian long doubles,  
?S: -1 = unknown format.  
?S:.  
?S:d\_long\_double\_style\_ieee:  
?S: This variable conditionally defines LONG\_DOUBLE\_STYLE\_IEEE  
?S: if the long double is any of the IEEE 754 style long doubles:  
?S: LONG\_DOUBLE\_STYLE\_IEEE\_STD, LONG\_DOUBLE\_STYLE\_IEEE\_EXTENDED,  
?S: LONG\_DOUBLE\_STYLE\_IEEE\_DOUBLEDDOUBLE.  
?S:.  
?S:d\_long\_double\_style\_ieee\_doubledouble:  
?S: This  
variable conditionally defines LONG\_DOUBLE\_STYLE\_IEEE\_DOUBLEDDOUBLE  
?S: if the long double is the 128-bit IEEE 754 double-double.  
?S:.  
?S:d\_long\_double\_style\_ieee\_extended:  
?S: This variable conditionally defines LONG\_DOUBLE\_STYLE\_IEEE\_EXTENDED  
?S: if the long double is the 80-bit IEEE 754 extended precision.  
?S: Note that despite the 'extended' this is less than the 'std',  
?S: since this is an extension of the double precision.  
?S:.  
?S:d\_long\_double\_style\_ieee\_std:  
?S: This variable conditionally defines LONG\_DOUBLE\_STYLE\_IEEE\_STD  
?S: if the long double is the 128-bit IEEE 754.  
?S:.  
?S:d\_long\_double\_style\_vax:  
?S: This variable conditionally defines LONG\_DOUBLE\_STYLE\_VAX  
?S: if the long double is the 128-bit VAX format H.  
?S:.  
?C:HAS\_LONG\_DOUBLE:  
?C: This symbol will be defined if the C compiler supports long  
?C: doubles.  
?C:.  
?C:LONG\_DOUBLE\_SIZE:  
?C: This symbol contains the size of a long double, so that the  
?C: C  
preprocessor can make decisions based on it. It is only  
?C: defined if the system supports long doubles. Note that this  
?C: is sizeof(long double), which may include unused bytes.  
?C:.  
?C:HAS\_LDEXPL:  
?C: This symbol, if defined, indicates that the ldexpl routine is  
?C: available to shift a long double floating-point number  
?C: by an integral power of 2.  
?C:.  
?C:LONG\_DOUBLE\_KIND:  
?C: LONG\_DOUBLE\_KIND will be one of  
?C: LONG\_DOUBLE\_IS\_DOUBLE

?C: LONG\_DOUBLE\_IS\_IEEE\_754\_128\_BIT\_LITTLE\_ENDIAN  
?C: LONG\_DOUBLE\_IS\_IEEE\_754\_128\_BIT\_BIG\_ENDIAN  
?C: LONG\_DOUBLE\_IS\_X86\_80\_BIT\_LITTLE\_ENDIAN  
?C: LONG\_DOUBLE\_IS\_X86\_80\_BIT\_BIG\_ENDIAN  
?C: LONG\_DOUBLE\_IS\_DOUBLEDDOUBLE\_128\_BIT\_LE\_LE  
?C: LONG\_DOUBLE\_IS\_DOUBLEDDOUBLE\_128\_BIT\_BE\_BE  
?C: LONG\_DOUBLE\_IS\_DOUBLEDDOUBLE\_128\_BIT\_LE\_BE  
?C: LONG\_DOUBLE\_IS\_DOUBLEDDOUBLE\_128\_BIT\_BE\_LE  
?C: LONG\_DOUBLE\_IS\_VAX\_H\_FLOAT  
?C: LONG\_DOUBLE\_IS\_UNKNOWN\_FORMAT  
?C: It is only defined if the system supports long doubles.  
?C:.  
?C:LONG\_DOUBLE\_STYLE\_IEEE:  
?C: This symbol, if defined, indicates  
that the long double  
?C: is any of the IEEE 754 style long doubles:  
?C: LONG\_DOUBLE\_STYLE\_IEEE\_STD, LONG\_DOUBLE\_STYLE\_IEEE\_EXTENDED,  
?C: LONG\_DOUBLE\_STYLE\_IEEE\_DOUBLEDDOUBLE.  
?C:.  
?C:LONG\_DOUBLE\_STYLE\_IEEE\_DOUBLEDDOUBLE:  
?C: This symbol, if defined, indicates that the long double is  
?C: the 128-bit double-double.  
?C:.  
?C:LONG\_DOUBLE\_STYLE\_IEEE\_EXTENDED:  
?C: This symbol, if defined, indicates that the long double is  
?C: the 80-bit IEEE 754. Note that despite the 'extended' this  
?C: is less than the 'std', since this is an extension of  
?C: the double precision.  
?C:.  
?C:LONG\_DOUBLE\_STYLE\_IEEE\_STD:  
?C: This symbol, if defined, indicates that the long double is  
?C: the 128-bit IEEE 754.  
?C:.  
?C:LONG\_DOUBLE\_STYLE\_VAX:  
?C: This symbol, if defined, indicates that the long double is  
?C: the 128-bit VAX format H.  
?C:.  
?H:#\$d\_ldexpl HAS\_LDEXPL /\*\*/  
?H:#\$d\_longdbl HAS\_LONG\_DOUBLE /\*\*/  
?H:?LONG\_DOUBLESIZE:#ifdef HAS\_LONG\_DOUBLE  
?H:?LONG\_DOUBLESIZE:#define LONG\_DOUBLESIZE \$longdblsize /\*\*/  
?H:?LONG\_DOUBLESIZE:#define  
LONG\_DOUBLEKIND \$longdblkind /\*\*/  
?H:?LONG\_DOUBLESIZE:#define LONG\_DOUBLE\_IS\_DOUBLE 0  
?H:?LONG\_DOUBLESIZE:#define LONG\_DOUBLE\_IS\_IEEE\_754\_128\_BIT\_LITTLE\_ENDIAN 1  
?H:?LONG\_DOUBLESIZE:#define LONG\_DOUBLE\_IS\_IEEE\_754\_128\_BIT\_BIG\_ENDIAN 2  
?H:?LONG\_DOUBLESIZE:#define LONG\_DOUBLE\_IS\_X86\_80\_BIT\_LITTLE\_ENDIAN 3  
?H:?LONG\_DOUBLESIZE:#define LONG\_DOUBLE\_IS\_X86\_80\_BIT\_BIG\_ENDIAN 4

```

?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT 9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LE_LE /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BE_BE
/* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
?LINT:known LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BE_BE
?LINT:known
LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
?LINT:set d_longdbl
?LINT:set d_ldexpl
: check for long doubles
echo " "
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
val="$define"
echo "You have long double."
else
val="$undef"
echo "You do not have long double."
fi

```

```

$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
?X: Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
echo " "
echo "Checking to see how big your long doubles are..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
printf("%d\n", sizeof(long double));
}
EOCP
set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double'
as just 'double'.
set try
if eval $compile; then
longdblsize=`$run ./try`
echo "Your long doubles are $longdblsize bytes long."
else
dflt='8'
echo " "
echo "(I can't seem to compile the test program. Guessing...)" >&4
rp="What is the size of a long double (in bytes)?"
./myread
longdblsize="$ans"
fi
if $test "X$doublesize" = "X$longdblsize"; then
echo "That isn't any different from an ordinary double."
echo "I'll keep your setting anyway, but you may see some"
echo "harmless compilation warnings."
fi
;;
esac
$rm_try
@end

```

```

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP>try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const long double d = -0.1L;
int main() {
    unsigned const char* b = (unsigned const char*)&d;
#ifdef DOUBLESIZE == LONGDBLSIZE
    printf("0\n"); /* if it floats
like double */
    exit(0);
#endif
#ifdef (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
    if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
        /* IEEE 754 128-bit little-endian */
        printf("1\n");
        exit(0);
    }
    if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
        /* IEEE 128-bit big-endian, e.g. solaris sparc */
        printf("2\n");
        exit(0);
    }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes. The trailing bytes
* cannot be trusted. */
#ifdef LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
    if (b[0] == 0xCD && b[9] == 0xBF) {
        /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
* or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
* Also known as "extended precision". */
        printf("3\n");
        exit(0);
    }
    if (b[0] == 0xBF && b[9] == 0xCD) {
        /* Is there ever big-endian 80-bit, really?
*
* The Motorola 68881 had another "extended

```

precision" format:

```
* sign:1 exp:15 zero:16 integer:1 mantissa:63
* for total of 96 bits of bytes. The zero bits were unused.
* See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
* If it ever becomes relevant, this format should be allocated
* a new doublekind code since it's quite different from the Intel x87.
*/
printf("4\n");
exit(0);
}
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
/* software "double double", the 106 is 53+53.
* but irix thinks it is 107. */
if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
/* double double 128-bit fully little-endian,
* little-endian doubles in little-endian order,
* 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
printf("5\n");
exit(0);
}
if (b[0] == 0xBF && b[7] == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
/* double double 128-bit fully big-endian,
* big-endian doubles in big-endian order,
* e.g. PPC/Power and MIPS:
* bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
printf("6\n");
exit(0);
}
if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
/* double double 128-bit mixed endian.
* little-endian doubles in big-endian order,
* e.g. ppc64el,
* 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
printf("7\n");
exit(0);
}
if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
/* double double 128-bit mixed endian,
* big-endian doubles in little-endian order,
* 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
printf("8\n");
exit(0);
}
}
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
```

```

#if LONGDBLSIZE == 16 && defined(__vax__)
if (b[0] == 0xFD && b[15] == 0x99) {
    /* VAX format H, PDP-11 mixed endian. */
    printf("9\n");
    exit(0);
}
#endif
printf("-1\n"); /* unknown
*/
exit(0);
}
EOP
set try
if eval $compile; then
    longdblkind=`$run ./try`
else
    longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >& 4 ;;
4) echo "You have x86 80-bit big endian long doubles." >& 4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >& 4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >& 4 ;;
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >& 4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >& 4 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >& 4 ;;
*) echo "Cannot figure out your long double."
>&4 ;;
esac
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;

```



```
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_longdbl.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1 1994/01/24 14:06:49 ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:56 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
?C: to set the process group ID.
?C:.
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_setsid.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1997, Chip Salzenberg

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sh.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:20:13 ram

?RCS: patch61: created

?RCS:

?MAKE:sh: Head

?MAKE: -pick wipe \$@ %<

?S:sh:

?S: This variable contains the full pathname of the shell used

?S: on this system to execute Bourne shell scripts. Usually, this will be

?S: /bin/sh, though it's possible that some systems will have /bin/ksh,

?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as

?S: D:/bin/sh.exe.

?S: This unit comes before Options.U,

so you can't set sh with a -D

?S: option, though you can override this (and startsh)

?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever

?S:.

?C:SH\_PATH:

?C: This symbol contains the full pathname to the shell used on this

?C: on this system to execute Bourne shell scripts. Usually, this will be

?C: /bin/sh, though it's possible that some systems will have /bin/ksh,

?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as

?C: D:/bin/sh.exe.

?C:.

?H:#define SH\_PATH "\$sh" /\*\*/

?H:.

?T:xxx try pth p SYSTYPE

?LINT:extern maintloc maintname

?X:

?X: Be quiet unless something unusual happens because this gets

?X: loaded up even before options are processed.

?X: Can't use ./loc because that depends on startsh, which, in turn

?X: depends on this unit.

?X:

: Find the basic shell for Bourne shell scripts

```
case "$sh" in
```

```
)
```

?X: SYSTYPE is for some older MIPS systems.

?X: I do not know if it is still needed.

```
case "$SYSTYPE" in
```

```
*bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
```

```
*) xxx="/bin/sh";;
```

```
esac
```

```
if
```

```
test -f "$xxx"; then
```

```
sh="$xxx"
```

```
else
```

: Build up a list and do a single loop so we can 'break' out.

```
pth=`echo $PATH | sed -e "s/$p_/ /g"`
```

```
for xxx in sh bash ksh pdksh ash; do
```

```
for p in $pth; do
```

```
try="$try ${p}/${xxx}"
```

```
done
```

```
done
```

```
for xxx in $try; do
```

```
if test -f "$xxx"; then
```

```
sh="$xxx"
```

```
break
```

```
elif test -f "$xxx$_exe"; then
```

```
sh="$xxx"
```

```
break
```

```
elif test -f "$xxx.exe"; then
```

```
sh="$xxx"
```

```
break
```

```
fi
```

```
done
```

```
fi
```

```
::
```

```
esac
```

?X: fd 4 isn't open yet...

```
case "$sh" in
```

```
) cat >&2 <<EOM
```

\$me: Fatal Error: I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh. How did you even get this far?

Please contact me (<\$maintname>) at <\$maintloc> and

we'll try to straighten this all out.

EOM

```
exit 1
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sh.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:34 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
?C: to the C program that it should
?C: include <sys/resource.h>.
?C:.
?H:#$i_sysresrc I_SYS_RESOURCE /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_sysresrc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: voidflags.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 16:27:58 ram  
?RCS: patch61: don't prompt them if the void support is high enough for us  
?RCS:  
?RCS: Revision 3.0.1.1 1995/01/11 15:37:44 ram  
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:10:01 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:voidflags defvoidused: cat rm\_try contains +cc +ccflags package \  
Oldconfig  
Myread i\_stdlib  
?MAKE: -pick add \$@ %<  
?S:voidflags:  
?S: This variable contains the eventual value of the VOIDFLAGS symbol,  
?S: which indicates how much support of the void type is given by this  
?S: compiler. See VOIDFLAGS for more info.  
?S:.  
?S:defvoidused:  
?S: This variable contains the default value of the VOIDUSED symbol (15).  
?S:.  
?X: Exceptionally, we have to explicitly alias the symbol name for  
?X: config\_h.SH, otherwise the comment would not appear.  
?C:VOIDFLAGS ~ %<:  
?C: This symbol indicates how much support of the void type is given by this  
?C: compiler. What various bits mean:  
?C:  
?C: 1 = supports declaration of void  
?C: 2 = supports arrays of pointers to functions returning void  
?C: 4 = supports comparisons between pointers to void functions and  
?C: addresses of void functions  
?C: 8 = supports declaration of generic void pointers  
?C:  
?C: The package designer should define VOIDUSED to indicate the requirements  
?C: of the package. This can be done either

```

by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U. If the
?C: latter approach is taken, only those flags will be tested. If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:??<:#ifndef VOIDUSED
?H:??<:#define VOIDUSED $defvoidused
?H:??<:#endif
?H:??<:#define VOIDFLAGS $voidflags
?H:??<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:??<:#define void int /* is void to be avoided? */
?H:??<:#define M_VOID /* Xenix strikes again */
?H:??<:#endif
?H:.
?INIT:: full support for void wanted by default
?INIT: defvoidused=15
?INIT:
?LINT: known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#if TRY & 1
void sub() {
#else
sub() {
#endif
extern void moo(); /* function returning void */
void (*goo)(); /* ptr to func returning void
*/
#if TRY & 8
void *hue; /* generic ptr */
#endif
#if TRY & 2
void (*foo[10])();
#endif

#if TRY & 4
if(goo == moo) {
exit(0);
}
#endif

```

```

exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
    voidflags=$defvoidused
echo "Good. It appears to support void to the level $package wants.">&4
if $contains warning .out >/dev/null 2>&1; then
    echo "However, you might get some warnings that look like this:"
    $cat .out
fi
else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
    echo "It supports 1..."
if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
    voidflags=7
    echo "And it supports 4 but not 8 definitely."
else
    echo
    "It doesn't support 4..."
    if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
        voidflags=11
        echo "But it supports 8."
    else
        voidflags=3
        echo "Neither does it support 8."
    fi
fi
else
echo "It does not support 2..."
if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
    voidflags=13
    echo "But it supports 4 and 8."
else
if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
    voidflags=5
    echo "And it supports 4 but has not heard about 8."
else
    echo "However it supports 8 but not 4."
fi
fi
fi
else

```

```

    echo "There is no support at all for void."
    voidflags=0
fi
fi
esac
?X: Only prompt user if support does not match the level we want
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
Support flag bits are:
    1: basic void declarations.
    2: arrays of pointers to functions returning void.
    4: operations between pointers to and addresses of
void functions.
    8: generic void pointers.
EOM
dflt="$voidflags";
rp="Your void support flags add up to what?"
./myread
voidflags="$ans"
;;
esac
$rm_try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/voidflags.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: basicshell.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:05:25 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
```

```
?MAKE: -pick add $@ %<
```

```
?S:basicshell:
```

```
?S: This variable contains the eventual value of the BASICSHELL symbol,
```

```
?S: which contains the full name of the basic script shell on this
```



?S: system. Usual values are /bin/sh, /bin/ksh, /bin/csh.

?S:.

?C:BASICSHELL:

?C: This symbol contains the  
full name of the basic script shell on this

?C: system. Usual values are /bin/sh, /bin/ksh, /bin/csh.

?C:.

?H:#define BASICSHELL "\$basicshell" /\*\*/

?H:.

: find the most basic shell for scripts

echo " "

case "\$basicshell" in

\*)

case "\$sh \$bash \$csh \$ksh" in

\*/sh\*) dflt="\$sh" ;;

\*/ksh\*) dflt="\$ksh" ;;

\*/csh\*) dflt="\$csh" ;;

\*/bash\*) dflt="\$bash" ;;

\*) dflt='/bin/sh' ;;

esac

;;

\*)

dflt="\$basicshell";;

esac

fn=f

rp="Give the full path name of the most basic shell used on your system"

./getfile

basicshell=\$ans

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/basicshell.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: mboxchar.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 14:13:12 ram

?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)

?RCS:

```

?RCS: Revision 3.0.1.1 1994/05/06 15:11:22 ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:15 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar' /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*) dflt="$mboxchar";;
esac
$cat <<EOM

```

In saving articles, \$package wants to differentiate between saving to mailbox format files and normal files. It does this by examining the first character of the file in question. On most systems the first line starts with "From ...", so the first character is an F. Other systems use magic cookies like control codes between articles, so one of those would be first. For example, MMDF messages are separated with lines of four control-A's (you may specify one as ^A, i.e. caret A).

```

EOM
rp="What's the first character of a mailbox file?"
./myread
mboxchar="$ans"
case "$mboxchar" in
F) ;;
"$CTRLA") ;;
^A|^a) mboxchar="$CTRLA";;
*) cat <<'EOM'

```

You will need to edit the shell script mbox.saver to properly append an article to a mailbox. The arguments to the script are documented in EOM

```
case "$shsharp" in
false) echo "comments in mbox.saver.std.";;
true) echo "comments in the shell script itself.";;
esac
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/mboxchar.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_bsdjmp.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:31:10 ram

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:09:09 ram

?RCS: patch36: call ./usg explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_bsdjmp: Guess Setvar cat +cc libs rm

?MAKE: -pick add \$@ %<

?S:d\_bsdjmp:

?S: This variable conditionally defines USE\_BSDJMP

if BSD \_setjmp and

?S: \_longjmp routines are available to do non-local gotos without saving

?S: or restoring the signal mask flag.

?S:.

?C:USE\_BSDJMP (BSDJMP):

?C: This symbol, if defined, indicates that the BSD \_setjmp and \_longjmp

?C: routines are available to do non-local gotos without saving or restoring

?C: the signal mask flag.

?C:.

```

?H:#$d_bsdjmp USE_BSDJMP /**/
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
$cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
if (_setjmp(env))
exit(set);
set = 0;
_longjmp(env, 1);
exit(1);
}
EOP
if $cc -o set set.c $libs >/dev/null 2>&1; then
if ./set >/dev/null 2>&1; then
echo "Good! You have BSD _setjmp and _longjmp routines." >&4
val="$define"
else
$cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
val="$undef"
fi
else
if
./usg; then
echo "You do not have _setjmp and _longjmp, but that's fine." >&4
else
cat <<EOM
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
fi
val="$undef"
fi
;;
*) val="$d_bsdjmp"
case "$d_bsdjmp" in
$define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
$undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;

```

```
esac
;;
esac
set d_bsdjump
eval $setvar
$rm -f set.c set
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_bsdjump.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Guess.U,v \$

?RCS: Revision 3.0.1.5 1995/07/25 13:37:14 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.4 1994/10/29 15:53:55 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS: patch36: call ./xenix explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0.1.3 1993/12/15 08:14:35 ram

?RCS: patch15: variable d\_bsd was not always set properly

?RCS:

?RCS: Revision 3.0.1.2 1993/08/30 08:57:14 ram

?RCS:

patch8: fixed comment which wrongly attributed the usrinc symbol

?RCS: patch8: no more ugly messages when no /usr/include/ctype.h

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:37:37 ram

?RCS: patch7: added support for OSF/1 machines

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit hazards some guesses as to what the general nature of the system

?X: is. The information it collects here is used primarily to establish default

?X: answers to other questions.

?X:

?MAKE:Guess d\_eunice d\_xenix d\_bsd: cat test echo n c contains \  
 rm Loc eunicefix tr sysroot

?MAKE: -pick add \$@ %<

?S:d\_eunice:

?S: This variable conditionally defines the symbols EUNICE and VAX, which  
 ?S: alerts the C program that it must deal with idiosyncrasies of VMS.

?S:.

?S:d\_xenix:

?S: This variable conditionally defines the symbol XENIX, which alerts  
 ?S: the C program that it runs under Xenix.

?S:.

?S:d\_bsd:

?S: This symbol conditionally defines the  
 symbol BSD when running on a  
 ?S: BSD system.

?S:.

?C:EUNICE:

?C: This symbol, if defined, indicates that the program is being compiled  
 ?C: under the EUNICE package under VMS. The program will need to handle  
 ?C: things like files that don't go away the first time you unlink them,  
 ?C: due to version numbering. It will also need to compensate for lack  
 ?C: of a respectable link() command.

?C:.

?X: Should we define VMS here? Is Eunice actually used anymore?

?X:?C:VMS:

?X:?C: This symbol, if defined, indicates that the program is running under  
 ?X:?C: VMS. It is currently only set in conjunction with the EUNICE symbol.

?X:?C:.

?C:XENIX:

?C: This symbol, if defined, indicates that the program is running under  
 ?C: Xenix (at least 3.0 ?).

?C:.

?X: We don't use BSD in the perl source. It's too vague, and already  
 ?X: defined in some header files anyway (e.g. NetBSD). This just gives  
 ?X: us a spurious redefinition error upon compilation.

?X: --Andy Dougherty Feb 11, 1998

?X: ?C:BSD:

?X:

?C: This symbol, if defined, indicates that the program is running under  
 ?X: ?C: a BSD system.

?X: ?C:.

?H:#\$d\_eunice EUNICE /\*\*/  
 ?X:?H:#\$d\_eunice VMS /\*\*/  
 ?H:#\$d\_xenix XENIX /\*\*/  
 ?X: ?H:#\$d\_bsd BSD /\*\*/  
 ?H:.

?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2

```

?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm... $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
echo "Looks kind of like an OSF/1 system, but we'll see..."
echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
xxx=`./loc addbib blurfl $pth`
if $test
-f $xxx; then
echo "Looks kind of like a USG system with BSD features, but we'll see..."
echo exit 0 >bsd
echo exit 0 >usg
else
if $contains SIGTSTP foo >/dev/null 2>&1 ; then
echo "Looks kind of like an extended USG system, but we'll see..."
else
echo "Looks kind of like a USG system, but we'll see..."
fi
echo exit 0 >usg
fi
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
echo "Looks kind of like a BSD system, but we'll see..."
d_bsd="$define"
echo exit 0 >bsd
else
echo "Looks kind of like a Version 7 system, but we'll see..."
echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
$cat <<'EOI'

```

There is, however, a strange, musty smell in the air that reminds me of something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.

EOI

```
echo exit 0 >eunice
```

```
d_eunice="$define"
```

```
: it so happens the Eunice I know will not run shell scripts in Unix format
```

```
::
```

```
*)
```

```
echo " "
```

```
echo "Congratulations. You aren't running Eunice."
```

```
d_eunice="$undef"
```

```
::
```

```
esac
```

```
: Detect
```

```
OS2. The p_ variable is set above in the Head.U unit.
```

```
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
```

```
: semicolon as a patch separator
```

```
case "$p_" in
```

```
:) ;;
```

```
*)
```

```
$cat <<'EOI'
```

I have the feeling something is not exactly right, however...don't tell me...

lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!

(Or you may be running DOS with DJGPP.)

EOI

```
echo exit 0 >os2
```

```
::
```

```
esac
```

```
if test -f /xenix; then
```

```
echo "Actually, this looks more like a XENIX system..."
```

```
echo exit 0 >xenix
```

```
d_xenix="$define"
```

```
else
```

```
echo " "
```

```
echo "It's not Xenix..."
```

```
d_xenix="$undef"
```

```
fi
```

```
chmod +x xenix
```

```
$eunicefix xenix
```

```
if test -f /venix; then
```

```
echo "Actually, this looks more like a VENIX system..."
```

```
echo exit 0 >venix
```

```
else
```

```
echo " "
```

```
if ./xenix; then
```

```
: null
```

```
else
```

```
echo "Nor is it Venix..."
```



```
fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Guess.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_varhdr.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:54:42 ram

?RCS: patch61: varargs script now starts with leading "startsh"

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:21:02 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.1 1994/05/13 15:26:05 ram

?RCS: patch27: this unit now supersedes old i\_stdarg.U and i\_varargs.U

?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:49 ram

?RCS: Baseline for

dist 3.0 netwide release.

?RCS:

?MAKE:i\_stdarg i\_varargs i\_varhdr: cat +cc +ccflags rm test Setvar \

Findhdr Warn startsh \_o

?MAKE: -pick add \$@ %<

?S:i\_stdarg:

?S: This variable conditionally defines the I\_STDARG symbol, which

?S: indicates to the C program that <stdarg.h> exists and should

?S: be included.

?S:.

?S:i\_varargs:

?S: This variable conditionally defines I\_VARARGS, which indicates

?S: to the C program that it should include <varargs.h>.

?S:.

?S:i\_varhdr:  
 ?S: Contains the name of the header to be included to get va\_dcl definition.  
 ?S: Typically one of varargs.h or stdarg.h.  
 ?S:.  
 ?C:I\_STDARG:  
 ?C: This symbol, if defined, indicates that <stdarg.h> exists and should  
 ?C: be included.  
 ?C:.  
 ?C:I\_VARARGS:  
 ?C: This symbol, if defined, indicates to the C program that it should  
 ?C: include <varargs.h>.  
 ?C:.  
 ?H:#\$i\_stdarg I\_STDARG /\*\*/  
 ?H:#\$i\_varargs I\_VARARGS /\*\*/  
 ?H:.  
 ?W:%<:va\_dcl  
 ?F:!varargs  
 ?T:valstd  
 ?LINT:set i\_stdarg i\_varargs  
 ?X:  
 ?X: Don't use setvar because the varargs test  
 below might override these.  
 ?X: Actually, the messages here are just informative. We don't wish to set  
 ?X: i\_varargs or i\_stdarg to their final value before knowing which of the  
 ?X: two we'll include.  
 ?X:  
 : see if stdarg is available  
 echo " "  
 if \$test `./findhdr stdarg.h`; then  
 echo "<stdarg.h> found." >&4  
 valstd="\$define"  
 else  
 echo "<stdarg.h> NOT found." >&4  
 valstd="\$undef"  
 fi  
  
 : see if varargs is available  
 echo " "  
 if \$test `./findhdr varargs.h`; then  
 echo "<varargs.h> found." >&4  
 else  
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4  
 fi  
  
 ?X:  
 ?X: if you have stdarg.h, you need to support prototypes to actually use it;  
 ?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some  
 ?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.

```

?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
f(va_alist)
va_dcl
#endif
{
va_list ap;
#ifdef I_STDARG
char *p;
#endif
#ifdef I_STDARG
va_start(ap,p);
#else
va_start(ap);
p = va_arg(ap, char *);
#endif
va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\${1} varargs.c >/dev/null 2>&1; then
echo "true"
else
echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr="
case "$valstd" in
"$define")
if `./varargs I_STDARG`; then

```

```

val='stdarg.h'
elif `./varargs I_VARARGS`; then
val='varargs.h'
fi
;;
*)
if `./varargs I_VARARGS`; then
val='varargs.h'
fi
;;
esac
case "$val" in
")
./warn "I could not find the definition for va_dcl... You have problems..."
val="$undef"; set i_stdarg; eval $setvar
val="$undef"; set i_varargs; eval $setvar
;;
*)
set i_varhdr
eval $setvar
case "$i_varhdr" in
stdarg.h)
val="$define"; set i_stdarg; eval $setvar
val="$undef"; set i_varargs; eval $setvar
;;
varargs.h)
val="$undef"; set i_stdarg;
eval $setvar
val="$define"; set i_varargs; eval $setvar
;;
esac
echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_varhdr.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fma:

?S: This variable conditionally defines the HAS\_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:  
?C:HAS\_FMA:  
?C: This symbol, if defined, indicates that the fma routine is  
?C: available to do the multiply-add function.

?C:.  
?H:#\$d\_fma HAS\_FMA /\*\*/

?H:.  
?LINT:set d\_fma  
: see if fma exists  
set fma d\_fma  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fma.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
?MAKE:d\_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_rint:

?S: This variable conditionally defines the HAS\_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS\_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d\_rint HAS\_RINT /\*\*/

?H:.

?LINT:set d\_rint

: see if rint exists

set rint d\_rint

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_rint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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 ?RCS: You may reuse parts of this distribution only within the terms of  
 ?RCS: that same Artistic Licence; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: Prefixup.U,v \$  
 ?RCS: Revision 3.0.1.1 1995/01/30 14:30:40 ram  
 ?RCS: patch49: created  
 ?RCS:  
 ?X:  
 ?X: Used as: "set dflt; eval \$prefixup" to set \$dflt to be \$prefix/dir  
 ?X: instead of \$prefixexp/dir, in case portability was involved somehow  
 ?X: and \$prefix uses ~name expansion.  
 ?X:  
 ?MAKE:Prefixup: prefix prefixexp  
 ?MAKE: -pick add \$@ %<  
 ?LINT:define prefixup  
 ?S:prefixup:  
 ?S: This shell variable is used internally by Configure to reset  
 ?S: the leading  
 installation prefix correctly when \$prefix uses  
 ?S: ~name expansion.  
 ?S: set dflt  
 ?S: eval \$prefixup  
 ?S: That will set \$dflt to \$prefix/dir if it was \$prefixexp/dir and  
 ?S: \$prefix differs from \$prefixexp.  
 ?S:.  
 ?V:prefixup  
 : set the prefixup variable, to restore leading tilde escape  
 prefixup='case "\$prefixexp" in  
 "\$prefix") ;;  
 \*) eval "\$1=\`echo \\\\$1 | sed \\'s,^\$prefixexp,\$prefix,\\\'";;  
 esac'

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Prefixup.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strtok.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:  
 ?RCS: \$Log: d\_strtok.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:07:38 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?X:  
 ?X: The strtok routine now appears to be a standard one, but it was  
 ?X: missing in early BSD systems.  
 ?X:  
 ?MAKE:d\_strtok: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_strtok:  
 ?S: This variable conditionally defines HAS\_STRTOK if strtok() is  
 ?S: available to scan strings for tokens.  
 ?S:.  
 ?C:HAS\_STRTOK (STRTOK):  
 ?C: This symbol, if defined, indicates  
 that the strtok routine is  
 ?C: available to scan strings for tokens.  
 ?C:.  
 ?H:#\$d\_strtok HAS\_STRTOK /\*\*/  
 ?H:.  
 ?LINT:set d\_strtok  
 : see if strtok exists  
 set strtok d\_strtok  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strtok.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endgrent\_r.U,v 0RCS:  
 ?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi  
 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
 ?RCS:  
 ?MAKE:d\_endgrent\_r endgrent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_grp extern\_C  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_endgrent\_r:  
 ?S: This variable conditionally defines the HAS\_ENDGRENT\_R symbol,  
 ?S: which indicates to the C program that the endgrent\_r()  
 ?S: routine is available.  
 ?S:.

?S:endgrent\_r\_proto:  
 ?S: This variable encodes the prototype of endgrent\_r.  
 ?S: It is zero if d\_endgrent\_r is undef, and one of the  
 ?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endgrent\_r  
 ?S: is defined.  
 ?S:.  
 ?C:HAS\_ENDGRENT\_R:  
 ?C: This symbol, if defined, indicates that the endgrent\_r routine  
 ?C: is available to  
 endgrent re-entrantly.  
 ?C:.  
 ?C:ENDGRENT\_R\_PROTO:  
 ?C: This symbol encodes the prototype of endgrent\_r.  
 ?C: It is zero if d\_endgrent\_r is undef, and one of the  
 ?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endgrent\_r  
 ?C: is defined.  
 ?C:.  
 ?H:#\$d\_endgrent\_r HAS\_ENDGRENT\_R /\*\*/  
 ?H:#define ENDGRENT\_R\_PROTO \$endgrent\_r\_proto /\*\*/  
 ?H:.  
 ?T:try hdrs d\_endgrent\_r\_proto  
 : see if endgrent\_r exists  
 set endgrent\_r d\_endgrent\_r  
 eval \$inlibc  
 case "\$d\_endgrent\_r" in  
 "\$define")  
 hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_grp grp.h"  
 case "\$d\_endgrent\_r\_proto:\$usethreads" in  
 ":define") d\_endgrent\_r\_proto=define  
 set d\_endgrent\_r\_proto endgrent\_r \$hdrs  
 eval \$hasproto ;;  
 \*) ;;  
 esac  
 case "\$d\_endgrent\_r\_proto" in  
 define)  
 case "\$endgrent\_r\_proto" in  
 "|0) try='int endgrent\_r(FILE\*\*);'  
 ./protochk "\$extern\_C \$try" \$hdrs && endgrent\_r\_proto=I\_H ;;  
 esac  
 case "\$endgrent\_r\_proto" in  
 "|0) try='void endgrent\_r(FILE\*\*);'  
 ./protochk "\$extern\_C \$try" \$hdrs && endgrent\_r\_proto=V\_H ;;  
 esac  
 case "\$endgrent\_r\_proto"  
 in  
 "|0) d\_endgrent\_r=undef  
 endgrent\_r\_proto=0  
 echo "Disabling endgrent\_r, cannot determine prototype." >&4 ;;



```

*) case "$endgrent_r_proto" in
REENTRANT_PROTO*) ;;
*) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "endgrent_r has no prototype, not using it." >&4 ;;
esac
d_endgrent_r=undef
endgrent_r_proto=0
;;
esac
;;
*) endgrent_r_proto=0
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_endgrent_r.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: maildir.U,v \$

?RCS: Revision 3.0.1.1 1993/12/15 08:21:56 ram

?RCS: patch15: now also looks under /var/mail for BSD/386

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:maildir maildirexp: Getfile Loc Oldconfig

?MAKE: -pick add \$@ %<

?S:maildir:

?S: This variable contains the name of the directory in which mail is

?S: spooled. Programs using this variable must be prepared to deal with

?S: ~name

```

substitutions.
?S:.
?S:mailedir:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
./getfile
maildir="$ans"
mailedir="$ansexp"

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/maildir.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_gethname.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:13:00 ram

?RCS: patch36: call ./xenix explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:11 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_gethname d\_uname d\_phostname ahostname: phostname cat \

myhostname package d\_portable Loc echo n c +i\_whoami +usrinc \

Myread Guess Oldconfig Csym

?MAKE: -pick add \$@ %<

?S:d\_gethname:

?S: This variable conditionally defines the HAS\_GETHOSTNAME symbol,

which

?S: indicates to the C program that the gethostname() routine may be used to derive the host name.

?S:.

?S:d\_uname:

?S: This variable conditionally defines the HAS\_UNAME symbol, which indicates to the C program that the uname() routine may be used to derive the host name.

?S:.

?S:d\_phostname:

?S: This variable conditionally defines the PHOSTNAME symbol, which contains the shell command which, when fed to popen(), may be used to derive the host name.

?S:.

?S:aphostname:

?S: This variable contains the command which can be used to compute the host name. The command is fully qualified by its absolute path, to make it safe when used by a process with super-user privileges.

?S:.

?C:HAS\_GETHOSTNAME (GETHOSTNAME):

?C: This symbol, if defined, indicates that the C program may use the gethostname() routine to derive the host name. See also HAS\_UNAME and PHOSTNAME.

?C:.

?C:HAS\_UNAME (UNAME):

?C: This symbol, if defined, indicates that the C program may use the uname() routine to derive the host name. See also HAS\_GETHOSTNAME and PHOSTNAME.

?C:.

?C:PHOSTNAME:

?C: This symbol, if defined, indicates that the C program may use the contents of PHOSTNAME as a command to feed to the popen() routine to derive the host name. See also HAS\_GETHOSTNAME and HAS\_UNAME.

?C: Note that the command uses a fully qualified path, so that it is safe even if used by a process with super-user privileges.

?C:.

?H:#\$d\_gethname HAS\_GETHOSTNAME /\*\*/

?H:#\$d\_uname HAS\_UNAME /\*\*/

?H:#\$d\_phostname PHOSTNAME "\$aphostname" /\* How to get the host name \*/

?H:.

?T:file val call

?LINT:change i\_whoami

: see how we will look up host name

echo " "

if false; then

: dummy stub to allow use of elif

@if HAS\_GETHOSTNAME

```

elif set gethostname val -f d_gethostname; eval $csym; $val; then
echo 'gethostname() found.' >&4
d_gethostname="$define"
call=gethostname
@end
@if HAS_UNAME
elif set uname val -f d_uname; eval $csym; $val; then
if ./xenix; then
$cat <<'EOM'
uname()
was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

```

```

EOM
dflt=y
case "$d_uname" in
"$define") dflt=n;;
esac
rp='Is your uname() broken?'
./myread
case "$ans" in
n*) d_uname="$define"; call=uname;;
esac
else
echo 'uname() found.' >&4
d_uname="$define"
call=uname
fi
@end
fi
case "$d_gethostname" in
") d_gethostname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethostname" in
*define*)
dflt=n
cat <<EOM

```

Every now and then someone has a \$call() that lies about the hostname but can't be fixed for political or economic reasons. If you wish, I can

```

@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.

```

```

@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomain.h (provided you have one).
@else
simply ignore your host name and use something like "noname" instead.
@end

```

EOM

```

rp="Shall I ignore $call() from now on?"
. ./myread
case "$ans" in
y*) d_undef="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname="";;
*) case "$aphostname" in
/*) ;;
*) set X $phostname
shift
file=$1
shift
file=`./loc $file $file $pth`
aphostname=`echo $file $*`
;;
esac
;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_undef$d_gethname" in
*define*) ;;
*)
case "$phostname" in
") ;;
*)
$cat <<EOT

```

There is no gethostname() or uname() on this system. You have two possibilities at this point:

- 1) You can have your host name (\$myhostname) compiled into \$package, which lets \$package start up faster, but makes your binaries non-portable, or
- 2) you can have \$package use a

```
popen("$aphostname","r")
```

which will start slower but be more portable.

```
@ if WHOAMI
```

Option 1 will give you the option of using whoami.h if you have one.

```
@ end
```

If you want option 2 but with a different command, you can edit config.sh at the end of this shell script.

```
EOT
```

```
case "$d_phostname" in
"$define") dflt=n;;
"$undef") dflt=y;;
")
case "$d_portable" in
"$define") dflt=n ;;
*) dflt=y ;;
esac;;
esac
rp="Do you want your host name compiled in?"
. ./myread
case "$ans" in
n*) d_phostname="$define" ;;
*) aphostname=""; d_phostname="$undef";;
esac;;
esac
case "$aphostname" in
")
@ if WHOAMI
case "$i_whoami" in
"$define")
dflt=y
$cat <<EOM
```

No hostname function--you can either use the whoami.h file, which has this line:

```
`grep sysname $usrinc/whoami.h`
```

or you can have the name we came up with earlier (\$myhostname) hardwired in.

```
EOM
```

```

rp="Use whoami.h to get hostname?"
./myread
case "$ans" in
n*) i_whoami="$sundef";;
esac
;;
"$sundef")
$cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
;;
esac;;
@ else
echo 'No hostname function -- hardwiring "$myhostname".' >&4;;
@ end
esac;;
esac
@elsif PHOSTNAME
case "$d_underscore$d_gethostname" in
*define*);;
*)
case "$phostname" in
")
@ if WHOAMI
case "$i_whoami" in
"$define")
$cat <<EOM

```

No hostname function--we'll use the whoami.h file, which has this line:

```
`grep sysname $usrinc/whoami.h`
```

```

EOM
;;
*) echo "There will be no way for $package to get your hostname." >&4;;
esac;;
@ else
echo "There will be no way for $package to get your hostname." >&4;;
@ end
*)
echo "I'll use 'popen(\"\"$aphostname\", \"r\")' to get your hostname." >&4
;;
esac;;
esac
@elsif MYHOSTNAME
case "$d_underscore$d_gethostname" in
*define*);;
*)

```

```
@ if WHOAMI
case "$i_whoami" in
"$define")
dflt=y
$cat
<<EOM
```

No hostname function--you can either use the whoami.h file, which has this line:

```
`grep sysname $usrinc/whoami.h`
```

or you can have the name we came up with earlier (\$myhostname) hardwired in.

EOM

```
rp="Use whoami.h to get hostname?"
./myread
case "$ans" in
n*) i_whoami="$undef";;
esac
;;
"$undef")
echo 'No whoami.h--hardwiring "$myhostname".' >&4;;
esac;;
@ else
echo 'Hardwiring "$myhostname".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_gethname.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_perlio.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: d\_perlio.U,v \$

?RCS:

?MAKE:useperlio: Myread Oldconfig Setvar

?MAKE: -pick add \$@ %<

?Y:TOP



?S:useperlio:  
?S: This variable conditionally defines the USE\_PERLIO symbol,  
?S: and indicates that the PerlIO abstraction should be  
?S: used throughout.  
?S:.  
?C:USE\_PERLIO:  
?C: This symbol, if defined, indicates that the PerlIO abstraction should  
?C: be used throughout. If not defined, stdio should be  
?C: used in a fully backward compatible manner.  
?C:.  
?H:%<:#ifndef USE\_PERLIO  
?H:%<:#\$useperlio USE\_PERLIO /\*\*/  
?H:%<:#endif  
?H:.  
: Check if we want perlio  
useperlio="\$define"

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/useperlio.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Config\_sh.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Config\_sh.U,v \$  
?RCS: Revision 3.0.1.3 1997/02/28 14:57:53 ram  
?RCS: patch61: added support for src.U  
?RCS:  
?RCS: Revision 3.0.1.2 1995/01/11 14:53:31 ram  
?RCS: patch45: moved path stripping from d\_portable.U to end of Configure  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 15:50:37 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:48 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X:

This unit ends up producing the config.sh script, which contains all the  
?X: definitions figured out by Configure. The add.Config\_sh command knows  
?X: which variables need to be remembered. It also adds the EOT (ends the  
?X: here document redirection with variable substitution).

?X:

```
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \  
End Obsol_sh Loc +d_portable package src cat
```

```
?MAKE: -pick add.Config_sh $@ %<
```

```
?MAKE: -pick add $@ ./Obsol_sh
```

```
?MAKE: -pick close.Config_sh $@ %<
```

```
?F:!config.over !config.arch
```

```
?T:file temp
```

```
?LINT:unclosed EOT
```

```
: back to where it started
```

```
if test -d ../UU; then
```

```
cd ..
```

```
fi
```

```
: configuration may be unconditionally patched via a 'config.arch' file
```

```
if $test -f config.arch; then
```

```
echo "I see a config.arch file, loading it." >&4
```

```
./config.arch
```

```
fi
```

```
: configuration may be patched via a 'config.over' file
```

```
if $test -f config.over; then
```

```
echo " "
```

```
dflt=y
```

```
rp='I see a config.over file. Do you wish to load it?'
```

```
./UU/myread
```

```
case "$ans" in
```

```
n*) echo
```

```
"OK, I'll ignore it.";;
```

```
*) ./config.over
```

```
echo "Configuration override changes have been loaded."
```

```
;;
```

```
esac
```

```
fi
```

```
@if d_portable
```

```
: in case they want portability, strip down executable paths
```

```
?X:
```

```
?X: Strip down paths in located executables. For each file, e.g. vi, there
```

```
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
```

```
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
```

```
?X:
```

```
case "$d_portable" in
```

```
"$define")
```

```

echo " "
echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do eval $file="\$file" but in order
?X: to handle things like sh Configure -Dmake=gmake, we can't do
?X: that. What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available. If
?X: not, replace it with the following expr-based command:
?X: expr $temp : '.*^(.*)' \| $temp
?X: Since this preserves the actual
?X: command name, we can now drop the
?X: OS/2 specific code.
?X: --Andy Dougherty August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there. Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty 4/1998
?X:
for file in $loclist $trylist; do
    eval temp=\$file
    eval $file=`basename $temp`
done
;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
-S".
#

# Package name : $package
# Source directory : $src
# Configuration time: $cf_time

```

```
# Configured by   : $cf_by
# Target system   : $myuname
```

EOT

```
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
```

```
$spitshell <<EOT >>config.sh
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Config_sh.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_aintl: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_aintl:
```

```
?S: This variable conditionally defines the HAS_AINTL symbol, which
```

```
?S: indicates to the C program that the aintl() routine is available.
```

```
?S: If copysignl is also present we can emulate modfl.
```

```
?S:.
```

```
?C:HAS_AINTL:
```

```
?C: This symbol, if defined, indicates that the aintl routine is
```

```
?C: available. If copysignl is also present we can emulate modfl.
```

```
?C:.
```

```
?H:#$d_aintl HAS_AINTL /**/
```

```
?H:.
```

```
?LINT:set d_aintl
```

```
: see if aintl exists
```

```
set aintl d_aintl
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_aintl.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1996, Spider Boardman
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:36:35 ram
?RCS: patch61: created
?RCS:
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
?C: to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON /**/
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_inetaton.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

?RCS: \$Log: d\_poll.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 15:38:17 ram  
?RCS: patch61: mention that <poll.h> can be included if HAS\_POLL defined  
?RCS:  
?RCS: Revision 3.0.1.1 1995/01/11 15:26:31 ram  
?RCS: patch45: created  
?RCS:  
?MAKE:d\_poll: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_poll:  
?S: This variable conditionally defines the HAS\_POLL symbol, which  
?S: indicates to the C program that the poll() routine is available  
?S: to poll active file descriptors.  
?S:.  
?C:HAS\_POLL  
:  
?C: This symbol, if defined, indicates that the poll routine is  
?C: available to poll active file descriptors. Please check I\_POLL and  
?C: I\_SYS\_POLL to know which header should be included as well.  
?C:.  
?H:#\$d\_poll HAS\_POLL /\*\*/  
?H:.  
?LINT:set d\_poll  
: see if poll exists  
set poll d\_poll  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_poll.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Copyright (c) 1998 Andy Dougherty  
?RCS:  
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>  
?RCS: Merged into dist by Andy Dougherty July 13, 1998  
?RCS:  
?MAKE:ebcdic: Compile Setvar cat rm\_try run

```

?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding. Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC
encoding.
?C:.
?H:#$ebcdic EBCDIC /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
if ('M'==0xd4) return 0;
return 1;
}
EOM
val=$undef
set try
if eval $compile_ok; then
if $run ./try; then
echo "You seem to speak EBCDIC." >&4
val="$define"
else
echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
fi
else
echo "I'm unable to compile the test program." >&4
echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/ebcdic.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Init.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:45:59 ram

?RCS: patch44: removed Options from MAKE to prevent Init overrides  
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U  
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U  
?RCS: patch44: moved signal trapping instruction to Begin.U as well

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This file initializes certain default variables  
used by Configure. They  
?X: may be overridden or added to by definitions in Myinit.U.

?X:

?MAKE:Init eunicefix \_exe: Null

?MAKE: -pick add \$@ %<

?MAKE: -pick weed \$@ ./Init

?S:eunicefix:

?S: When running under Eunice this variable contains a command which will  
?S: convert a shell script to the proper form of text file for it to be  
?S: executable by the shell. On other systems it is a no-op.

?S:.

?S:\_exe (exe\_ext):

?S: This variable defines the extension used for executable files.  
?S: For unix it is empty. Other possible values include '.exe'.  
?S: DJGPP, Cygwin and OS/2 use '.exe'. Stratus VOS uses '.pm'.  
?S: On operating systems which do not require a specific extension  
?S: for executable files, this variable is empty.

?S:.

?V:define undef smallmach:rmlist

?X:

?X: Throughout the units, one may make use of \$define and \$undef to reference  
?X: a defined symbol or an undefined one. There is no need to add them in  
?X: the dependency line since this unit makes them visible via ?V:, and  
?X:  
everyone inherits from those symbols since by convention Init.U is the  
?X: root dependency.



```

?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=""

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
    eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
    eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
    _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
    _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
    _exe=".exe"
elif test -d c:/ ; then
: OS/2 or cygwin
    _exe=".exe"
else
: All other UNIX systems
    _exe=""
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Init.U

```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrintl:

?S: This variable conditionally defines the HAS\_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrintl HAS\_LRINTL /\*\*/

?H:.

?LINT:set d\_lrintl

: see if lrintl exists

set lrintl d\_lrintl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_lrintl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getprotobyname\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getprotobyname\_r getprotobyname\_r\_proto: Inlibc Protochk Hasproto \  
i\_systypes usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getprotobyname\_r:

?S: This variable conditionally defines the HAS\_GETPROTOBYNAME\_R symbol,

?S: which indicates to the C program that the getprotobyname\_r()

?S: routine is available.

?S:.

?S:getprotobyname\_r\_proto:

?S: This variable encodes the prototype of getprotobyname\_r.

?S: It is zero if d\_getprotobyname\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getprotobyname\_r

?S: is defined.

?S:.

?C:HAS\_GETPROTOBYNAME\_R:

?C: This symbol, if

defined, indicates that the getprotobyname\_r routine

?C: is available to getprotobyname re-entrantly.

?C:.

?C:GETPROTOBYNAME\_R\_PROTO:

```

?C: This symbol encodes the prototype of getprotobyname_r.
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getprotobyname_r_proto:$usethreads" in
":define") d_getprotobyname_r_proto=define
set d_getprotobyname_r_proto getprotobyname_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getprotobyname_r_proto" in
define)
case "$getprotobyname_r_proto" in
"|0) try='int getprotobyname_r(const char*, struct
protoent*, char*, size_t, struct protoent**);'
./protochk "$$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
esac
case "$getprotobyname_r_proto" in
"|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
./protochk "$$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
esac
case "$getprotobyname_r_proto" in
"|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
./protochk "$$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
esac
case "$getprotobyname_r_proto" in
"|0) d_getprotobyname_r=undef
getprotobyname_r_proto=0
echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
* ) case "$getprotobyname_r_proto" in
REENTRANT_PROTO*) ;;
*) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in

```

```
define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
esac
d_getprotobyname_r=undef
getprotobyname_r_proto=0
;;
esac
;;
*) getprotobyname_r_proto=0
;;
esac
```

#### Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_getprotobyname_r.U
```

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?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS:

?MAKE:i\_stdint: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_stdint:

?S: This variable conditionally defines the I\_STDINT symbol, which

?S: indicates to the C program that <stdint.h> exists and should

?S: be included.

?S:.

?C:I\_STDINT:

?C: This symbol, if defined, indicates that <stdint.h> exists and

?C: should be included.

?C:.

?H:#\$i\_stdint I\_STDINT /\*\*/

?H:.

?LINT:set i\_stdint

: see if stdint is available

set stdint.h i\_stdint

eval \$inhdr

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/i_stdint.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

```

?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:08:02 ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:00 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
get the
?S: definition of the nlist() function. On a MIPS RISC/OS box, it is -lml.
?S: Under Sys Vr4, it is -lelf. Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
libnlist='-lml'
else
xxx=`./loc libelf$_a x $libpth`
case "$xxx" in
x) ;;
*)
libnlist="$xxx"
;;
esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
;;
*) echo "nlist() can be found in $libnlist." >&4
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/libnlist.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_socks5_init.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:09:36 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
```

?MAKE: -pick add \$@ %<  
?S:d\_lockf:  
?S: This variable conditionally defines HAS\_LOCKF if lockf() is  
?S: available to do file locking.  
?S:.  
?C:HAS\_LOCKF (LOCKF):  
?C: This symbol, if defined, indicates that the lockf routine is  
?C: available to do file locking.  
?C:.  
?H:#\$d\_lockf  
HAS\_LOCKF /\*\*/  
?H:.  
?LINT:set d\_lockf  
: see if lockf exists  
set lockf d\_lockf  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_lockf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: orderlib.U,v \$  
?RCS: Revision 3.0.1.4 1997/02/28 16:18:18 ram  
?RCS: patch61: replaced .a with \$\_a all over the place  
?RCS: patch61: likewise for .o replaced by \$\_o  
?RCS: patch61: now uses the ar located by Loc.U  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/11 15:33:04 ram  
?RCS: patch45: allows hint files to specify their own value for 'ranlib'  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/29 16:26:48 ram  
?RCS: patch36: now performs a real small compile for accurate  
checks (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:31:17 ram  
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile  
?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:09:26 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive. Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries. Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail. (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
$run ./foobar >/dev/null 2>&1; then
echo "$ar appears to generate random libraries itself."
orderlib=false
if [ "X$ranlib" = "X" ]; then
    ranlib=":"
fi
elif

```



```

$ar s bar$_a >/dev/null 2>&1 &&
$cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs >/dev/null 2>&1 &&
$run ./foobar >/dev/null 2>&1; then
    echo "a table of contents needs to be added with '$ar s'."
    orderlib=false
    ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
$cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs >/dev/null 2>&1 &&
$run ./foobar >/dev/null 2>&1; then
    echo "a table of contents needs to be added with '$ar ts'."
    orderlib=false
    ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
case "$ranlib" in
:) ranlib="";
")
    ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
    $test -f $ranlib || ranlib="
;;
esac
if $test -n "$ranlib";
then
    echo "your system has '$ranlib'; we'll use that."
    orderlib=false
else
    echo "your system doesn't seem to support random libraries"
    echo "so we'll use lorder and tsort to order the libraries."
    orderlib=true
    ranlib=":"
fi
fi
$rm -f foo* bar*

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/orderlib.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getlogin\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.  
?RCS:  
?MAKE:d\_getlogin\_r getlogin\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_unistd extern\_C  
?MAKE: -pick add \$@ %<  
?S:d\_getlogin\_r:  
?S: This variable conditionally defines the HAS\_GETLOGIN\_R symbol,  
?S: which indicates to the C program that the getlogin\_r()  
?S: routine is available.  
?S:.  
?S:getlogin\_r\_proto:  
?S: This variable encodes the prototype of getlogin\_r.  
?S: It is zero if d\_getlogin\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getlogin\_r  
?S: is defined.  
?S:.  
?C:HAS\_GETLOGIN\_R:  
?C: This symbol, if defined, indicates that the getlogin\_r routine  
?C: is available  
to getlogin re-entrantly.  
?C:.  
?C:GETLOGIN\_R\_PROTO:  
?C: This symbol encodes the prototype of getlogin\_r.  
?C: It is zero if d\_getlogin\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getlogin\_r  
?C: is defined.  
?C:.  
?H:#\$d\_getlogin\_r HAS\_GETLOGIN\_R /\*\*/  
?H:#define GETLOGIN\_R\_PROTO \$getlogin\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_getlogin\_r\_proto  
: see if getlogin\_r exists  
set getlogin\_r d\_getlogin\_r  
eval \$inlibc  
case "\$d\_getlogin\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_unistd unistd.h"  
case "\$d\_getlogin\_r\_proto:\$usethreads" in  
":define") d\_getlogin\_r\_proto=define  
set d\_getlogin\_r\_proto getlogin\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_getlogin\_r\_proto" in  
define)  
case "\$getlogin\_r\_proto" in  
"|0) try='int getlogin\_r(char\*, size\_t)';

```

./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
esac
case "$getlogin_r_proto" in
"|0) try='int getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
;;
esac
case "$getlogin_r_proto" in
"|0) try='char* getlogin_r(char*, size_t);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
esac
case "$getlogin_r_proto" in
"|0) try='char* getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
esac
case "$getlogin_r_proto" in
"|0) d_getlogin_r=undef
getlogin_r_proto=0
echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
* ) case "$getlogin_r_proto" in
REENTRANT_PROTO*) ;;
*) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getlogin_r has no prototype, not using it." >&4 ;;
esac
d_getlogin_r=undef
getlogin_r_proto=0
;;
esac
;;
*) getlogin_r_proto=0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_getlogin_r.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: cpp\_trad.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cpp\_stuff.U,v \$

?MAKE:cpp\_trad: cpp cat contains rm

?MAKE: -pick add \$@ %<

?S:cpp\_trad:

?S: This variable contains the program to run to get traditional C

?S: preprocessor semantics and not ISO C semantics: we want something

?S: that knows as little about C as possible to use as a more general

?S: purpose preprocessor.

?S:.

?F:!foo.c !foo.cpp

: how do we get traditional cpp semantics?

echo " "

echo "Checking to see how to get traditional cpp semantics..."

>&4

\$cat >foo.c <<'EOF'

#define A(x) x

#define B(y) y

A(a)B(b)

EOF

if \$cpp foo.c >foo.cpp; \$contains ab foo.cpp >/dev/null 2>&1; then

echo "Plain '\$cpp' works just fine."

cpp\_trad="\$cpp"

elif \$cpp -traditional foo.c >foo.cpp; \

\$contains ab foo.cpp >/dev/null 2>&1; then

echo "We'll use '\$cpp -traditional' to get proper semantics."

cpp\_trad="\$cpp -traditional"

else

echo "I don't know how to get traditional semantics with '\$cpp'." >&4

cpp\_trad="\$cpp"

fi

\$rm -f foo.c foo.cpp

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cpp\_trad.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
?MAKE:d\_qgcvt: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_qgcvt:  
?S: This variable conditionally defines the HAS\_QGCVT symbol, which  
?S: indicates to the C program that the qgcvt() routine is available.  
?S:.  
?C:HAS\_QGCVT:  
?C: This symbol, if defined, indicates that the qgcvt routine is  
?C: available to convert long doubles ("quad doubles") to strings.  
?C: This is a low-level routine hopefully faster than sprintf.  
?C:.  
?H:#\$d\_qgcvt HAS\_QGCVT /\*\*/  
?H:.  
?LINT:set d\_qgcvt  
: see if qgcvt exists  
set qgcvt d\_qgcvt  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_qgcvt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1996, Andy Dougherty  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Unix.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:20:06 ram  
?RCS: patch61: created  
?RCS:  
?X:  
?X: The purpose of this unit is to define things that are common across all  
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX  
?X: environment, then some of the following variables can be redefined in hint  
?X: files.  
?X:  
?MAKE:Unix \_a \_o firstmakefile archobjs: Oldconfig  
?MAKE: -pick add \$@ %<  
?S:\_a (lib\_ext):

?S: This variable defines the extension

used for ordinary libraries.

?S: For unix, it is '.a'. The '.' is included. Other possible

?S: values include '.lib'.

?S:.

?S:\_o (obj\_ext):

?S: This variable defines the extension used for object files.

?S: For unix, it is '.o'. The '.' is included. Other possible

?S: values include '.obj'.

?S:.

?S:firstmakefile:

?S: This variable defines the first file searched by make. On unix,

?S: it is makefile (then Makefile). On case-insensitive systems,

?S: it might be something else. This is only used to deal with

?S: convoluted make depend tricks.

?S:.

?S:archobjs:

?S: This variable defines any additional objects that must be linked

?S: in with the program on this architecture. On unix, it is usually

?S: empty. It is typically used to include emulations of unix calls

?S: or other facilities. For perl on OS/2, for example, this would

?S: include os2/os2.obj.

?S:.

?INIT:: Extra object files, if any, needed on this platform.

?INIT:archobjs="

: Define several unixisms.

: Hints files

or command line option can be used to override them.

```
case "$_a" in
```

```
) _a='.a';;
```

```
esac
```

```
case "$_o" in
```

```
) _o='.o';;
```

```
esac
```

```
@if firstmakefile
```

```
: Which makefile gets called first. This is used by make depend.
```

```
case "$firstmakefile" in
```

```
) firstmakefile='makefile';;
```

```
esac
```

```
@end
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Unix.U

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
val="$define"
echo "You have isinf."
else
val="$undef"
echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar

Found
in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```

?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Csym.U,v \$  
?RCS: Revision 3.0.1.4 1995/07/25 13:36:29 ram  
?RCS: patch56: re-arranged compile line to include ldflags before objects  
?RCS: patch56: added quotes for OS/2 support  
?RCS:  
?RCS: Revision 3.0.1.3 1995/05/12 12:00:33 ram  
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/31 09:34:13 ram  
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:00:05 ram  
?RCS:  
patch6: added ldflags as a conditional dependency and to compile line  
?RCS: patch6: a final double quote was missing in csym variable after eval  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:50 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm  
?MAKE: -pick add \$@ %<  
?LINT:define csym  
?LINT:use libc  
?S:csym:  
?S: This shell variable is used internally by Configure to check  
?S: wether a given C symbol is defined or not. A typical use is:  
?S: set symbol result [-fva] [previous]  
?S: eval \$csym  
?S: That will set result to 'true' if the function [-f], variable [-v]  
?S: or array [-a] is defined, 'false' otherwise. If a previous value is  
?S: given and the -r flag was provided on the command line, that value  
?S: is reused without questioning.  
?S:.  
?V:csym  
?T:tval tx tlook tf tdc tc  
: is a C symbol defined?  
csym='tlook=\$1;  
case "\$3" in  
-v) tf=libc.tmp; tc=""; tdc="";;  
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;  
\*) tlook="^\\$1\\$";



```

tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
case "$runnm" in
true)
if $contains $tlook $tf >/dev/null 2>&1;
then tval=true;
else tval=false;
fi;;
*)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
?X: compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
then tval=true;
else tval=false;
fi;
$rm -f t t.c;;
esac;;
*)
case "$tval" in
$define) tval=true;;
*) tval=false;;
esac;;
esac;
eval "$2=$tval"

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Csym.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_sresgproto: Hasproto i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_sresgproto:

?S: This variable conditionally defines the HAS\_SETRESGID\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the setresgid() function. Otherwise, it is

?S: up to the program to supply one.

?S:.

?C:HAS\_SETRESGID\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the setresgid() function. Otherwise, it is up

?C: to the program to supply one. Good guesses are

?C: extern

int setresgid(uid\_t ruid, uid\_t euid, uid\_t suid);

?C:.

?H:#\$d\_sresgproto HAS\_SETRESGID\_PROTO /\*\*/

?H:.

?LINT:set d\_sresgproto

: see if prototype for setresgid is available

echo " "

set d\_sresgproto setresgid \$i\_unistd unistd.h

eval \$hasproto

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_sresgproto.U

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```

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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*) zzz="gid" ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
<stdio.h>
int main() {
$gidtype foo = -1;
if (foo < 0)
printf("-1\n");
else
printf("1\n");
}
EOCP
set try
if eval $compile; then
yyy=`$run ./try`
case "$yyy" in
") gidsign=1
echo "(I can't execute the test program--guessing unsigned.)" >&4
;;
*) gidsign=$yyy
case "$gidsign" in
1) echo "Your $zzz is unsigned." ;;

```

```
-1) echo "Your $zzz is signed." ;;
esac
;;
esac
else
gidsign=1
echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/gidsign.U
```

No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_eofpipe.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:12:40 ram

?RCS: patch36: call ./bsd explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c

?MAKE: -pick add \$@ %<

?S:d\_eofpipe:

?S: This variable conditionally defines the EOFPIPE symbol, which

?S: indicates to the C program that select will correctly detect the EOF

?S: condition when pipe

is closed from the other end.

?S:.

?C:EOFPIPE:

?C: This symbol, if defined, indicates that EOF condition will be detected

?C: by the reader of the pipe when it is closed by the writing process.

?C: That is, a select() call on that file descriptor will not block when

?C: only an EOF remains (typical behaviour for BSD systems).

?C:.

?H:#\$d\_eofpipe EOFPIPE /\*\*/

?H:.

?F:!mpipe

```

: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
echo "Let's see if your pipes return EOF to select() upon closing..." >&4
$cat >pipe.c <<'EOP'
int main()
{
int pd[2];
int mask;

pipe(pd);
if (0 == fork()) {
close(pd[0]);
close(pd[1]);
exit(0);
}

close(pd[1]);
mask = 1 << pd[0];
alarm(2);
select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
if (0 == read(pd[0], &mask, 1))
exit(0);

exit(1);
}
EOP
if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
echo "./pipe || exit 1" > mpipe
chmod +x
mpipe
./mpipe >/dev/null 2>&1
case $? in
0) d_eofpipe="$define";;
*) d_eofpipe="$undef";;
esac
else
echo "(The test program did not compile correctly -- Guessing.)"
if ./bsd; then
d_eofpipe="$define"
else
d_eofpipe="$undef"
fi
fi
case "$d_eofpipe" in
"$define") echo "Yes, they do.";;

```

```

*) echo "No, they don't! (sigh)";;
esac
;;
*)
$echo $n "Your pipes $c"
case "$d_eofpipe" in
"$define") echo "allow select() to see EOF upon closing.";;
*) echo "won't let select() see EOF on closing.";;
esac
;;
esac
$rm -f *pipe* core

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_eofpipe.U

```

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_usleepproto: Hasproto i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_usleepproto:

?S: This variable conditionally defines the HAS\_USLEEP\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the usleep() function. Otherwise, it is

?S: up to the program to supply one.

?S:.

?C:HAS\_USLEEP\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the usleep() function. Otherwise, it is up

?C: to the program to supply one. A good guess is

?C: extern int

usleep(useconds\_t);

?C:.

?H:#\$d\_usleepproto HAS\_USLEEP\_PROTO /\*\*/

?H:.

?LINT:set d\_usleepproto

: see if prototype for usleep is available

echo " "

```
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_usleepproto.U
```

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?RCS:

?MAKE:d\_msghdr\_s: Hasstruct i\_systypes d\_socket i\_sysuio Setvar

?MAKE: -pick add \$@ %<

?S:d\_msghdr\_s:

?S: This variable conditionally defines the HAS\_STRUCT\_MSGHDR symbol,

?S: which indicates that the struct msghdr is supported.

?S:.

?C:HAS\_STRUCT\_MSGHDR:

?C: This symbol, if defined, indicates that the struct msghdr

?C: is supported.

?C:.

?H:#\$d\_msghdr\_s HAS\_STRUCT\_MSGHDR /\*\*/

?H:.

?LINT:set d\_msghdr\_s

: Check for msghdr\_s

echo " "

echo "Checking to see if your system supports struct msghdr..." >&4

set d\_msghdr\_s msghdr \$i\_systypes sys/types.h \$d\_socket sys/socket.h \$i\_sysuio sys/uio.h

eval \$hasstruct

case "\$d\_msghdr\_s" in

"\$define") echo "Yes, it does." ;;

\*) echo "No, it doesn't."

;;

esac

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_msghdr_s.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_attribut.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_attribut.U,v \$  
?RCS: Revision 3.0.1.3 1995/01/30 14:33:45 ram  
?RCS: patch49: test C program now includes <stdio.h> (WED)  
?RCS:  
?RCS: Revision 3.0.1.2 1995/01/11 15:25:47 ram  
?RCS: patch45: fixed typo in the d\_attribut variable (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:08:55 ram  
?RCS: patch36: created by ADO  
?RCS:  
?MAKE:d\_attribute\_deprecated d\_attribute\_format  
d\_attribute\_malloc \  
d\_attribute\_nonnull d\_attribute\_noreturn d\_attribute\_pure \  
d\_attribute\_unused d\_attribute\_warn\_unused\_result \  
d\_printf\_format\_null d\_attribute\_always\_inline: \  
Myread Oldconfig cat cc ccflags rm Setvar contains i\_stdlib run \  
i\_inttypes  
?MAKE: -pick add \$@ %<  
?S:d\_attribute\_format:  
?S: This variable conditionally defines HASATTRIBUTE\_FORMAT, which  
?S: indicates the C compiler can check for printf-like formats.  
?S:.  
?S:d\_attribute\_deprecated:  
?S: This variable conditionally defines HASATTRIBUTE\_DEPRECATED, which  
?S: indicates that GCC can handle the attribute for marking deprecated  
?S: APIs  
?S:.  
?S:d\_printf\_format\_null:  
?S: This variable conditionally defines PRINTF\_FORMAT\_NULL\_OK, which  
?S: indicates the C compiler allows printf-like formats to be null.  
?S:.  
?S:d\_attribute\_malloc:  
?S: This variable conditionally defines HASATTRIBUTE\_MALLOC, which  
?S: indicates the C compiler can understand functions as having  
?S: malloc-like semantics.  
?S:.  
?S:d\_attribute\_nonnull:  
?S: This  
variable conditionally defines HASATTRIBUTE\_NONNULL, which  
?S: indicates that the C compiler can know that certain arguments



?S: must not be NULL, and will check accordingly at compile time.

?S:.

?S:d\_attribute\_noreturn:

?S: This variable conditionally defines HASATTRIBUTE\_NORETURN, which

?S: indicates that the C compiler can know that certain functions

?S: are guaranteed never to return.

?S:.

?S:d\_attribute\_pure:

?S: This variable conditionally defines HASATTRIBUTE\_PURE, which

?S: indicates that the C compiler can know that certain functions

?S: are "pure" functions, meaning that they have no side effects, and

?S: only rely on function input and/or global data for their results.

?S:.

?S:d\_attribute\_unused:

?S: This variable conditionally defines HASATTRIBUTE\_UNUSED, which

?S: indicates that the C compiler can know that certain variables

?S: and arguments may not always be used, and to not throw warnings

?S: if they don't get used.

?S:.

?S:d\_attribute\_warn\_unused\_result:

?S: This

variable conditionally defines

?S: HASATTRIBUTE\_WARN\_UNUSED\_RESULT, which indicates that the C

?S: compiler can know that certain functions have a return values

?S: that must not be ignored, such as malloc() or open().

?S:.

?S:d\_attribute\_always\_inline:

?S: This variable conditionally defines HASATTRIBUTE\_ALWAYS\_INLINE,

?S: which indicates that the C compiler can know that certain

?S: functions should always be inlined.

?S:.

?C:HASATTRIBUTE\_FORMAT ~ %< (GNU\_ATTRIBUTE\_CHECK):

?C: Can we handle GCC attribute for checking printf-style formats

?C:.

?C:PRINTF\_FORMAT\_NULL\_OK:

?C: Allows \_\_printf\_\_ format to be null when checking printf-style

?C:.

?C:HASATTRIBUTE\_MALLOC:

?C: Can we handle GCC attribute for malloc-style functions.

?C:.

?C:HASATTRIBUTE\_NONNULL:

?C: Can we handle GCC attribute for nonnull function parms.

?C:.

?C:HASATTRIBUTE\_NORETURN:

?C: Can we handle GCC attribute for functions that do not return

?C:.

?C:HASATTRIBUTE\_PURE:

?C: Can we handle GCC attribute

```

for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then

```

```

if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
fi
else
  echo "Your C compiler doesn't seem
to understand __attribute__ at all."
  val="$undef"
fi
;;
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
  $define)
    echo " "
    echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifdef INTPTR_MAX
#define intptr_t int
#endif
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
  : run the executable in case it produces a run-time warning
  if $run ./attrib >>attrib.out 2>&1; then
    if $contains 'warning' attrib.out >/dev/null
2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."

```

```

    val="$undef"
else
    echo "Your C compiler allows __printf__ format to be null."
    val="$define"
fi
else
    echo "Your C compiler executable failed with __printf__ format null."
    val="$undef"
fi
else
    echo "Your C compiler fails with __printf__ format null."
    val="$undef"
fi
;;
*) val="$undef" ;;
esac
;;
*) val="$d_printf_format_null" ;;
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
    echo "Your C compiler doesn't support __attribute__((malloc))."
    val="$undef"
else
    echo
    "Your C compiler supports __attribute__((malloc))."
    val="$define"
fi
else
    echo "Your C compiler doesn't seem to understand __attribute__ at all."
    val="$undef"
fi
;;
*) val="$d_attribute_malloc" ;;
esac

```

```

set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
echo "Your C compiler doesn't support __attribute__((nonnull))."
val="$undef"
else
echo "Your C compiler supports __attribute__((nonnull))."
val="$define"
fi
else
echo "Your C compiler doesn't seem to understand __attribute__ at all."
val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
$setvar
$rm -f attrib*

```

```

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
echo "Your C compiler doesn't support __attribute__((noreturn))."
val="$undef"
else
echo "Your C compiler supports __attribute__((noreturn))."

```

```

    val="$define"
fi
else
echo "Your C compiler doesn't seem to understand __attribute__ at all."
val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int n )
__attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
echo "Your C compiler doesn't support __attribute__((pure))."
val="$undef"
else
echo "Your C compiler supports __attribute__((pure))."
val="$define"
fi
else
echo "Your C compiler doesn't seem to understand __attribute__ at all."
val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'

```

```

#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
fi
else
  echo
  "Your C compiler doesn't seem to understand __attribute__ at all."
  val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
  echo " "
  echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
  $cat >attrib.c <<'EOCP'
  #include <stdio.h>
  int I_am_deprecated(void) __attribute__((deprecated));
  EOCP
  if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
  if $contains 'warning' attrib.out >/dev/null 2>&1; then
    echo "Your C compiler doesn't support __attribute__((deprecated))."
    val="$undef"
  else
    echo "Your C compiler supports __attribute__((deprecated))."
    val="$define"
  fi
  else
    echo "Your C compiler doesn't seem to understand __attribute__ at all."
    val="$undef"
  fi
  ;;
*) val="$d_attribute_deprecated" ;;
esac
set d_attribute_deprecated

```

```

eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
val="$undef"
else
echo "Your C compiler supports __attribute__((warn_unused_result))."
val="$define"
fi
else
echo "Your C compiler doesn't seem to understand __attribute__ at all."
val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

```

```

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
#include
<stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
if $contains 'warning' attrib.out >/dev/null 2>&1; then
echo "Your C compiler doesn't support __attribute__((always_inline))."
val="$undef"
else
echo "Your C compiler supports __attribute__((always_inline))."

```



```

    val="$define"
fi
else
echo "Your C compiler doesn't seem to understand __attribute__ at all."
val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_attribut.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_sbrkproto: Hasproto i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_sbrkproto:

?S: This variable conditionally defines the HAS\_SBRK\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the sbrk() function. Otherwise, it is

?S: up to the program to supply one.

?S:.

?C:HAS\_SBRK\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the sbrk() function. Otherwise, it is up

?C: to the program to supply one. Good guesses are

?C: extern void\* sbrk(int);

?C: extern

void\* sbrk(size\_t);

?C:.

?H:#\$d\_sbrkproto HAS\_SBRK\_PROTO /\*\*/

?H:.

?LINT:set d\_sbrkproto

: see if prototype for sbrk is available

```
echo " "  
set d_sbrkproto sbrk $i_unistd unistd.h  
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_sbrkproto.U
```

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?RCS: \$Id: d\_rusage.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: d\_rusage.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME

?X:INC: i\_sysresrc i\_systime

?MAKE:d\_rusage: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_rusage (d\_getrusg):

?S: This variable conditionally defines the HAS\_GETRUSAGE symbol, which

?S: indicates that the getrusage() routine exists. The getrusage() routine

?S: supports sub-second accuracy

for process cpu accounting. You may need

?S: to include <sys/resource.h> and <sys/time.h>.

?S:.

?C:HAS\_GETRUSAGE (RUSAGE\_GETRUSAGE):

?C: This symbol, if defined, indicates that the getrusage() routine is

?C: available to get process statistics with a sub-second accuracy.

?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.

?C:.

?H:#\$d\_rusage HAS\_GETRUSAGE /\*\*/

?H:.

?LINT:set d\_rusage

: see if getrusage exists

set getrusage d\_rusage

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/dist/U/d\_usage.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nan:

?S: This variable conditionally defines HAS\_NAN if nan() is

?S: available to generate NaN.

?S:.

?C:HAS\_NAN:

?C: This symbol, if defined, indicates that the nan routine is

?C: available to generate NaN.

?C:.

?H:#\$d\_nan HAS\_NAN /\*\*/

?H:.

?LINT:set d\_nan

: see if nan exists

set nan d\_nan

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_nan.U

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?RCS: \$Id: d\_strchr.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS:

?RCS: \$Log: d\_strchr.U,v \$

?RCS: Revision 3.0.1.2 1993/10/16 13:49:20 ram

?RCS: patch12: added support for HAS\_INDEX

?RCS: patch12: added magic for index() and rindex()

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:05:26 ram

?RCS: patch10: now only defines HAS\_STRCHR, no macro remap of index (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:32 ram

?RCS: Baseline for dist 3.0 netwide release.

```

?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
  Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
?LINT:set d_strchr d_index
: index or strchr
echo " "
if set index val -f; eval $csym; $val; then
  if
  set strchr val -f d_strchr; eval $csym; $val; then
    if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
  val="$define"

```

```

    vali="$undef"
    echo "strchr() found." >&4
else
?X: has index, strchr, and no strchr in string header
    val="$undef"
    vali="$define"
    echo "index() found." >&4
fi
else
?X: has only index, no strchr, string header is a moot point
    val="$undef"
    vali="$define"
    echo "index() found." >&4
fi
else
if set strchr val -f d_strchr; eval $csym; $val; then
    val="$define"
    vali="$undef"
    echo "strchr() found." >&4
else
    echo "No index() or strchr() found!" >&4
    val="$undef"
    vali="$undef"
fi
fi
set d_strchr; eval $setvar
val="$vali"
set d_index; eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_strchr.U
```

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?RCS:

?RCS: \$Log: doublesize.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:17:06 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

```

?RCS: Revision 3.0 1993/08/18 12:08:06 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This symbol contains the
size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
echo "Checking to see how big your double precision numbers are..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
printf("%d\n", sizeof(double));
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
dflt=`./try`
else
dflt='8'
echo "(I can't seem to compile the test program. Guessing...)"
fi
;;
*)
dflt="$doublesize"
;;
esac
rp="What is the size of a double precision number (in bytes)?"
./myread
doublesize="$ans"
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/doublesize.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
  spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put. This directory is for pages
?S: that describe whole programs, not libraries or modules. It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp="
?S:html1direxp:
?S: This
  variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix. For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM
```

If you wish to install html files for programs in \$spackage, indicate the appropriate directory here. To skip installing html files,

```
answer "none".
EOM
case "$html1dir" in
"|none|$undef" ) dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
./getfile
prefixvar=html1dir
./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '
```

Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/html1dir.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_closedir.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:31:26 ram

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.2 1994/10/29 16:11:18 ram

?RCS: patch36: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:07:21 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_closedir d\_void\_closedir: Inlibc i\_dirent i\_sysdir i\_sysndir \

cc ccflags ldflags libs Setvar rm

?MAKE: -pick

add \$@ %<

?S:d\_closedir:

?S: This variable conditionally defines HAS\_CLOSEDIR if closedir() is



?S: available.

?S:.

?C:HAS\_CLOSEDIR:

?C: This symbol, if defined, indicates that the closedir() routine is

?C: available.

?C:.

?H:#\$d\_closedir HAS\_CLOSEDIR /\*\*/

?H:.

?S:d\_void\_closedir:

?S: This variable conditionally defines VOID\_CLOSEDIR if closedir()

?S: does not return a value.

?S:.

?C:VOID\_CLOSEDIR:

?C: This symbol, if defined, indicates that the closedir() routine

?C: does not return a value.

?C:.

?H:#\$d\_void\_closedir VOID\_CLOSEDIR /\*\*/

?H:.

?F:!closedir

?LINT:set d\_closedir d\_void\_closedir

: see if closedir exists

set closedir d\_closedir

eval \$inlibc

@if VOID\_CLOSEDIR || d\_void\_closedir

?X: The following contortions are designed so we can call closedir()

?X: and check whether it returns a value. The contortions are designed

?X: to portably pick up the correct directory header, for those

?X: systems that support various mutually incompatible directory functions.

?X: This

is from perl5's perl.h

case "\$d\_closedir" in

"\$define")

echo " "

echo "Checking whether closedir() returns a status..." >&4

cat > closedir.c <<EOM

#\$i\_dirent I\_DIRENT /\*\*/

#\$i\_sysdir I\_SYS\_DIR /\*\*/

#\$i\_sysndir I\_SYS\_NDIR /\*\*/

#if defined(I\_DIRENT)

#include <dirent.h>

#if defined(NeXT) && defined(I\_SYS\_DIR) /\* NeXT needs dirent + sys/dir.h \*/

#include <sys/dir.h>

#endif

#else

#ifdef I\_SYS\_NDIR

#include <sys/ndir.h>

```

#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
if ./closedir > /dev/null 2>&1 ; then
echo "Yes, it does."
val="$undef"
else
echo "No, it doesn't."
val="$define"
fi
else
echo "(I can't seem to compile the test program--assuming it doesn't)"
val="$define"
fi
;;
*)
val="$undef";
;;
esac
set d_void_closedir
eval $setvar
$rm
-f closedir*
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_closedir.U

```

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?RCS: \$Id: d\_fchown.U 1 2006-08-24 12:32:52Z rmanfredi \$

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_fchown.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:01 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_fchown: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_fchown:  
?S: This variable conditionally defines the HAS\_FCHOWN symbol, which  
?S: indicates to the C program that the fchown() routine is available  
?S: to change ownership of opened files.  
?S:.  
?C:HAS\_FCHOWN (FCHOWN):  
?C: This symbol, if defined, indicates that the fchown routine is available  
?C: to  
change ownership of opened files. If unavailable, use chown().  
?C:.  
?H:#\$d\_fchown HAS\_FCHOWN /\*\*/  
?H:.  
?LINT:set d\_fchown  
: see if fchown exists  
set fchown d\_fchown  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_fchown.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_strxfrm.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:12:04 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:d\_strxfrm: Inlibc  
?MAKE: -pick add \$@ %<

?S:d\_strxfrm:  
?S: This variable conditionally defines HAS\_STRXFRM if strxfrm() is  
?S: available to transform strings.  
?S:.  
?C:HAS\_STRXFRM:  
?C: This symbol, if defined, indicates that the strxfrm() routine is  
?C: available to transform  
strings.  
?C:.  
?H:#\$d\_strxfrm HAS\_STRXFRM /\*\*/  
?H:.  
?LINT:set d\_strxfrm  
: see if strxfrm exists  
set strxfrm d\_strxfrm  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strxfrm.U

No license file was found, but licenses were detected in source scan.

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: package.U,v \$  
?RCS: Revision 3.0.1.3 1994/10/29 16:27:21 ram  
?RCS: patch36: beware of non-ascii character sets when translating case  
?RCS:  
?RCS: Revision 3.0.1.2 1993/11/10 17:37:02 ram  
?RCS: patch14: skip definition of spackage if not otherwise used  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:11:10 ram  
?RCS: patch10: added spackage, suitable for starting sentences  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:28 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:package spackage:  
Nothing  
?MAKE: -pick wipe \$@ %<  
?S:package:

?S: This variable contains the name of the package being constructed.

?S: It is primarily intended for the use of later Configure units.

?S:.

?S:spackage:

?S: This variable contains the name of the package being constructed,

?S: with the first letter uppercased, i.e. suitable for starting

?S: sentences.

?S:.

?C:PACKAGE:

?C: This variable contains the name of the package being built.

?C:.

?H:#define PACKAGE "\$package"

?H:.

?T:first last

: set package name

package='<PACKAGENAME>'

@if spackage

first=`echo \$package | sed -e 's/^(.).\*\1/^`

last=`echo \$package | sed -e 's/^(.\*)\1/^`

?X:

?X: So early in the Configure script, we don't have ./tr set up and can't

?X: include Tr in our dependency or that would create a cycle. Therefore,

?X: we have to somehow duplicate the work done in Tr. That's life.

?X:

case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in

ABYZ) spackage=`echo \$first | tr '[:lower:]' '[:upper:]'`\$last;;

\*) spackage=`echo

\$first | tr '[a-z]' '[A-Z]'`\$last;;

esac

@end

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/package.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_endhent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram

?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_endhent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_endhent:  
?S: This variable conditionally defines HAS\_ENDHOSTENT if endhostent() is  
?S: available to close whatever was being used for host queries.  
?S:.  
?C:HAS\_ENDHOSTENT:  
?C: This symbol, if defined, indicates that the endhostent() routine is  
?C: available to close whatever was being used for host  
queries.  
?C:.  
?H:#\$d\_endhent HAS\_ENDHOSTENT /\*\*/  
?H:.  
?LINT:set d\_endhent  
: see if endhostent exists  
set endhostent d\_endhent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/d\_endhent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_float.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: i\_float.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:21:57 ram  
?RCS: patch32: created by ADO  
?RCS:  
?MAKE:i\_float: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_float:  
?S: This variable conditionally defines the I\_FLOAT symbol, and indicates  
?S: whether a C program may include <float.h> to get symbols like DBL\_MAX  
?S: or DBL\_MIN, i.e. machine dependent floating point values.  
?S:.

?C:I\_FLOAT:

?C: This

symbol, if defined, indicates to the C program that it should

?C: include <float.h> to get definition of symbols like DBL\_MAX or

?C: DBL\_MIN, i.e. machine dependent floating point values.

?C:.

?H:#\$i\_float I\_FLOAT /\*\*/

?H:.

?LINT:set i\_float

: see if this is a float.h system

set float.h i\_float

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_float.U

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?RCS: \$Id: d\_getgrent\_r.U,v 0RCS:

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getgrent\_r getgrent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_grp extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getgrent\_r:

?S: This variable conditionally defines the HAS\_GETGRENT\_R symbol,

?S: which indicates to the C program that the getgrent\_r()

?S: routine is available.

?S:.

?S:getgrent\_r\_proto:

?S: This variable encodes the prototype of getgrent\_r.

?S: It is zero if d\_getgrent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getgrent\_r

?S: is defined.

?S:.

?C:HAS\_GETGRENT\_R:

?C: This symbol, if defined, indicates that the getgrent\_r routine

?C: is available to

getgrent re-entrantly.

?C:.

?C:GETGRENT\_R\_PROTO:

?C: This symbol encodes the prototype of getgrent\_r.

?C: It is zero if d\_getgrent\_r is undef, and one of the

```

?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENTR /**/
?H:#define GETGRENTR_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
case "$d_getgrent_r_proto:$usetthreads" in
":define") d_getgrent_r_proto=define
set d_getgrent_r_proto getgrent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getgrent_r_proto" in
define)
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
./protochk
"$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
esac
case "$getgrent_r_proto" in
"|0) d_getgrent_r=undef

```



```

getgrent_r_proto=0
echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
*) case "$getgrent_r_proto" in
REENTRANT_PROTO*) ;;
*) getgrent_r_proto="REENTRANT_PROTO_${getgrent_r_proto}" ;;
esac
echo "Prototype:
$try" ;;
esac
;;
*) case "$usethreads" in
define) echo "getgrent_r has no prototype, not using it." >&4 ;;
esac
d_getgrent_r=undef
getgrent_r_proto=0
;;
esac
;;
*) getgrent_r_proto=0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_getgrent_r.U
```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_asinh:

?S: This variable conditionally defines the HAS\_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS\_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d\_asinh HAS\_ASINH /\*\*/

?H:.

?LINT:set d\_asinh

: see if asinh exists

set asinh d\_asinh

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_asinh.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_fsetpos.U,v \$

?RCS: Revision 3.0.1.1 1994/06/20 06:57:38 ram

?RCS: patch30: created

?RCS:

?MAKE:d\_fsetpos: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fsetpos:

?S: This variable conditionally defines HAS\_FSETPOS if fsetpos() is

?S: available to set the file position indicator.

?S:.

?C:HAS\_FSETPOS:

?C: This symbol, if defined, indicates that the fsetpos routine is

?C: available to set the file position indicator, similar to fseek().

?C:.

?H:#\$d\_fsetpos

HAS\_FSETPOS /\*\*/

?H:.

?LINT:set d\_fsetpos

: see if fsetpos exists

set fsetpos d\_fsetpos

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_fsetpos.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_fcntl.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:06:01 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:d\_fcntl: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fcntl:  
 ?S: This variable conditionally defines the HAS\_FCNTL symbol, and indicates  
 ?S: whether the fcntl() function exists  
 ?S:.  
 ?C:HAS\_FCNTL:  
 ?C: This symbol, if defined, indicates to the C program that  
 ?C: the fcntl() function exists.  
 ?C:.  
 ?H:#\$d\_fcntl HAS\_FCNTL /\*\*/  
 ?H:.  
 ?LINT:set d\_fcntl  
 :  
 see if this is an fcntl system  
 set fcntl d\_fcntl  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_fcntl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi \$  
 ?RCS:  
 ?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
 ?RCS:  
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 ?RCS: that same Artistic Licence; a copy of which may be found at the root  
 ?RCS: of the source tree for dist 4.0.  
 ?RCS:  
 ?RCS: \$Log: d\_tminsys.U,v \$  
 ?RCS: Revision 3.0 1993/08/18 12:07:47 ram  
 ?RCS: Baseline for dist 3.0 netwide release.  
 ?RCS:  
 ?MAKE:d\_tminsys: contains Setvar Findhdr  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_tminsys:  
 ?S: This variable conditionally defines TM\_IN\_SYS if this system

?S: declares "struct tm" in <sys/time.h> rather than <time.h>.

?S:.

?C:TM\_IN\_SYS (TMINSYS):

?C: This symbol is defined if this system declares "struct tm" in

?C: <sys/time.h> rather than <time.h>.

We can't just say

?C: -I/usr/include/sys because some systems have both time files, and

?C: the -I trick gets the wrong one.

?C:.

?H:#\$d\_tminsys TM\_IN\_SYS /\*\*/

?H:.

?LINT:set d\_tminsys

: see if struct tm is defined in sys/time.h

echo " "

if \$contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then

echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4

val="\$undef"

else

echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4

val="\$define"

fi

set d\_tminsys

eval \$setvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_tminsys.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: Init.U,v \$

?RCS: Revision 3.0.1.1 1994/10/31 09:45:59 ram

?RCS: patch44: removed Options from MAKE to prevent Init overrides

?RCS: patch44: option processing now done after Myinit thanks to new Begin.U

?RCS: patch44: moved "Beginning of configuration questions" to Begin.U

?RCS: patch44: moved signal trapping instruction to Begin.U as well

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:02 ram

?RCS: Baseline for dist 3.0 netwide release.

```

?RCS:
?X:
?X: This file
initializes certain default variables used by Configure. They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell. On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=""

: We must find out about
Eunice early
eunicefix=':
if test -f /etc/unixtovms; then
eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
_exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS

```

```

    _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
    _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
    _exe=""
elif test -d c:/ -o -n "$is_os2" ; then
: OS/2 or cygwin
    _exe=".exe"
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Init.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_readdir\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_readdir\_r readdir\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_dirent extern\_C

?MAKE: -pick add \$@ %<

?S:d\_readdir\_r:

?S: This variable conditionally defines the HAS\_READDIR\_R symbol,

?S: which indicates to the C program that the readdir\_r()

?S: routine is available.

?S:.

?S:readdir\_r\_proto:

?S: This variable encodes the prototype of readdir\_r.

?S: It is zero if d\_readdir\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_readdir\_r

?S: is defined.

?S:.

?C:HAS\_READDIR\_R:

?C: This symbol, if defined, indicates that the readdir\_r routine

?C: is available to readdir re-entrantly.

?C:.

?C:READDIR\_R\_PROTO:

?C: This

symbol encodes the prototype of readdir\_r.

?C: It is zero if d\_readdir\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_readdir\_r

```

?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
case "$d_readdir_r_proto:$susethreads" in
":define") d_readdir_r_proto=define
set d_readdir_r_proto readdir_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_readdir_r_proto" in
define)
case "$readdir_r_proto" in
"|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
esac
case "$readdir_r_proto" in
"|0) try='int readdir_r(DIR*, struct dirent*);'
./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
;;
esac
case "$readdir_r_proto" in
"|0) d_readdir_r=undef
readdir_r_proto=0
echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
*) case "$readdir_r_proto" in
REENTRANT_PROTO*) ;;
*) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "readdir_r has no prototype, not using it." >&4 ;;
esac
d_readdir_r=undef
readdir_r_proto=0
;;
esac
;;

```

```
*) readdir_r_proto=0
```

```
::
```

```
esac
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_readdir_r.U
```

No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:uidsign: Myread Typedef uidtype Compile run

?MAKE: -pick add \$@ %<

?S:uidsign:

?S: This variable contains the signedness of a uidtype.

?S: 1 for unsigned, -1 for signed.

?S:.

?C:Uid\_t\_sign:

?C: This symbol holds the signedness of a Uid\_t.

?C: 1 for unsigned, -1 for signed.

?C:.

?H:#define Uid\_t\_sign \$uidsign /\* UID sign \*/

?H:.

?T:yyy zzz

?F:!try

: Check if UID is signed

echo " "

case "\$uidtype" in

\*\_t) zzz="\$uidtype" ;;

\*) zzz="uid" ;;

esac

echo "Checking the sign of \$zzz..." >&4

cat > try.c <<EOCP

```
#include <sys/types.h>
```

```
#include
```

```
<stdio.h>
```

```
int main() {
```

```
    $uidtype foo = -1;
```

```
    if (foo < 0)
```

```
        printf("-1\n");
```

```
    else
```



```

    printf("1\n");
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
    *) uidsign=1
        echo "(I can't execute the test program--guessing unsigned.)" >&4
        ;;
    *) uidsign=$yyy
        case "$uidsign" in
        1) echo "Your $zzz is unsigned." ;;
        -1) echo "Your $zzz is signed." ;;
        esac
        ;;
    esac
else
    uidsign=1
    echo "(I can't compile the test program--guessing unsigned.)" >&4
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/typedefs/uidsign.U
```

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?RCS: \$Id\$

?RCS:

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?RCS:

?RCS: Copyright (c) 2000, Jarkko Hietaniemi

?RCS:

?X:

?X: This unit produces a bit of shell code that must be dotted in order

?X: to make quick check on whether the current C compiler is working.

?X:

?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test

?MAKE: -pick add \$@ %<

?S:ccname:

?S: This can set either by hints files or by Configure. If using

?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?

?S: Some platforms, however, make good use of this by storing the

?S: flavor

of the C compiler being used here. For example if using

?S: the Sun WorkShop suite, ccname will be 'workshop'.

?S:.

?S:ccversion:

?S: This can set either by hints files or by Configure. If using

?S: a (non-gcc) vendor cc, this variable may contain a version for

?S: the compiler.

?S:.

?F:./checkcc ./trygcc !checktmp

?V:despair

?T:trygcc

?LINT:extern cc rm ccflags ldflags

?LINT:change cc ccflags

?LINT:usefile checktmp

?INIT:ccname=""

?INIT:ccversion=""

: generate the trygcc script for later perusal

cat <<EOS >trygcc

\$startsh

EOS

cat <<'EOOSC' >>trygcc

case "\$cc" in

) ;;

\*) \$rm -f try try.\*

    \$cat >try.c <<EOM

int main(int argc, char \*argv[]) {

    (void) argc;

    (void) argv;

    return 0;

}

EOM

    if \$cc -o try \$ccflags \$ldflags try.c; then

        :

    else

        echo "Uh-oh, the C compiler '\$cc' doesn't seem to be working." >&4

        despair=yes

        trygcc=yes

        case "\$cc" in

            \*gcc\*) trygcc=no ;;

        esac

        case "\$cc -v -c try.c 2>&1`" in

            \*gcc\*) trygcc=no ;;

        esac

        if \$test X"\$trygcc" = Xyes; then

            if gcc -o try -c try.c; then

```

echo " "
echo "You seem to have a working gcc, though." >&4
rp="Would you like to use it?"
dflt=y
if $test -f myread; then
    ./myread
else
    if $test -f UU/myread; then
        ./UU/myread
    else
        echo "Cannot find myread, sorry. Aborting." >&2
        exit 1
    fi
fi
case "$ans" in
    [yY]*) cc=gcc; ccname=gcc; ccflags=""; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
    $cat *.cbu >checktmp 2>/dev/null
    if $contains ccflags checktmp >/dev/null; then

```

```

./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM

```

```

    fi;;
esac
fi
fi
fi
$rm -f try try.*
;;
esac
EOSC

```

: generate the checkcc script for later perusal

```

cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
    ") ;;
*) $rm -f try try.*
    $cat >try.c <<EOM
int main(int argc, char *argv[]) {
    (void) argc;
    (void) argv;
    return 0;

```

```

}
EOM
if $cc -o try $ccflags $ldflags try.c; then
:
else
if $test X"$despair" = Xyes; then
echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
fi
$cat >&4 <<EOM

```

You need to find a working C compiler.

Either (purchase and) install the C compiler supplied by your OS vendor,  
or for a free C compiler try <http://gcc.gnu.org/>

I cannot continue any further, aborting.

```

EOM
exit 1
fi

```

```

$rm -f try try.*
;;
esac
EOSC

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Checkcc.U
```

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Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/files/Jmake.tmpl
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
```

```
?RCS: $Log: d_setlocale.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/06/20 06:57:51 ram
```

?RCS: patch30: created  
?RCS:  
?MAKE:d\_setlocale: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_setlocale:  
?S: This variable conditionally defines HAS\_SETLOCALE if setlocale() is  
?S: available to handle locale-specific ctype implementations.  
?S:.  
?C:HAS\_SETLOCALE:  
?C: This symbol, if defined, indicates that the setlocale  
routine is  
?C: available to handle locale-specific ctype implementations.  
?C:.  
?H:#\$d\_setlocale HAS\_SETLOCALE /\*\*/  
?H:.  
?LINT:set d\_setlocale  
: see if setlocale exists  
set setlocale d\_setlocale  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_setlocale.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_vfork.U,v \$  
?RCS: Revision 3.0.1.6 1994/08/29 16:18:21 ram  
?RCS: patch32: set default to 'y' the first time  
?RCS:  
?RCS: Revision 3.0.1.5 1994/06/20 06:59:14 ram  
?RCS: patch30: usevfork was not always properly set  
?RCS:  
?RCS: Revision 3.0.1.4 1994/05/13 15:20:56 ram  
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/05/06 14:59:09 ram  
?RCS: patch23: now explicitly ask whether vfork() should be used

```

(ADO)
?RCS:
?RCS: Revision 3.0.1.2 1993/10/16 13:49:39 ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:06:57 ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
: backward compatibility for d_hvfork
if test X$d_hvfork != X; then
d_vfork="$d_hvfork"

```

```

d_hvfork="
fi
?X:=====
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
echo " "
case "$usevfork" in
false) dflt='n';
*) dflt='y';
esac
cat <<'EOM'

```

Perl can only use a vfork() that doesn't suffer from strict restrictions on calling functions or modifying global data in the child. For example, glibc-2.1 contains such a vfork() that is unsuitable. If your system provides a proper fork() call, chances are that you do NOT want perl to use vfork().

```

EOM
rp="Do you still want to use vfork()?"
./myread
case "$ans" in
y|Y) ;;
*)
echo "Ok, we won't use vfork()."
val="$undef"
;;
esac
;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';

```

```
*) usevfork='false';;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_vfork.U
```

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```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_preadv.U,v $
```

```
?RCS:
```

```
?MAKE:d_preadv: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_preadv:
```

```
?S: This variable conditionally defines the HAS_PREADV symbol, which
```

```
?S: indicates to the C program that the preadv() routine is available.
```

```
?S:.
```

```
?C:HAS_PREADV :
```

```
?C: This symbol, if defined, indicates that the preadv routine is
```

```
?C: available to perform vectored reads on a file descriptor at a
```

```
?C: given offset.
```

```
?C:.
```

```
?H:#$d_preadv HAS_PREADV /**/
```

```
?H:.
```

```
?LINT:set d_preadv
```

```
:
```

```
see if preadv exists
```

```
set preadv d_preadv
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_preadv.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strncmp.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```



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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_strncmp.U,v \$  
?RCS: Revision 3.0.1.2 1994/05/06 14:54:34 ram  
?RCS: patch23: fixed a typo (WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:04:39 ram  
?RCS: patch10: created (WAD)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:06:24 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_strncmp: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_strncmp:  
?S: This variable conditionally defines the HAS\_STRCASECMP symbol, which  
?S: indicates to the C program  
that the strcasecmp() routine is available  
?S: for case-insensitive string compares.  
?S:.  
?C:HAS\_STRCASECMP:  
?C: This symbol, if defined, indicates that the strcasecmp() routine is  
?C: available for case-insensitive string compares.  
?C:.  
?H:#\$d\_strncmp HAS\_STRCASECMP /\*\*/  
?H:.  
?LINT:set d\_strncmp  
: see if strcasecmp exists  
set strcasecmp d\_strncmp  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strncmp.U

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```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3 1995/05/12 12:12:46 ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:20:35 ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 06:59:54 ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:56 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
cppstdin cppminus +cppflags test Myread \
Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h. The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h. The old way was to declare it as "int (*signal(...))()". It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler. Thus, you can declare
?C: a signal handler using "Signal_t (*handler())", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define Signal_t $signal_t /* Signal handler's return
type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`

```

```

$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$tmp 2>/dev/null
if $contains 'int.*\[ ]*signal' $$tmp >/dev/null 2>&1 ; then
    echo "You have int (*signal())() instead of void." >&4
    val="$undef"
elif $contains 'void.*\[ ]*signal' $$tmp >/dev/null 2>&1 ; then
    echo "You have void (*signal())() instead of int." >&4
    val="$define"
elif $contains 'extern[ ]*[(\[]*signal' $$tmp >/dev/null 2>&1 ; then
    echo "You have int (*signal())() instead of void." >&4
    val="$undef"
else
    case "$d_voidsig" in
    ")
        echo "I can't determine whether signal handler returns void or int..." >&4
        dflt=void
        rp="What type does your signal handler return?"
        ./myread
        case "$ans" in
        v*) val="$define";;
        *) val="$undef";;
        esac;;
    "$define")
        echo "As you already told me, signal handler returns void." >&4;;
    *)
        echo "As you already told
me, signal handler returns int." >&4;;
    esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$tmp

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_voidsig.U

```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \  
rm_try Setvar echo i_sunmath usequadmath \  
d_longdbl longdblkind nvsizesize doublesize longdblsize  
?MAKE: -pick add $@ %<  
?S:doublemantbits:  
?S: This symbol, if defined, tells how many mantissa bits  
?S: there are in double precision floating point format.  
?S: Note that this is usually DBL_MANT_DIG minus one, since  
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes  
?S: the implicit bit which doesn't really exist.  
?S:.  
?S:longdblmantbits:  
?S: This symbol, if defined, tells how many mantissa bits  
?S: there are in long double precision floating point format.  
?S: Note that this can be LDBL_MANT_DIG minus one,  
?S: since  
LDBL_MANT_DIG can include the IEEE 754 implicit bit.  
?S: The common x86-style 80-bit long double does not have  
?S: an implicit bit.  
?S:.  
?S:nvmantbits:  
?S: This variable tells how many bits the mantissa of a Perl NV has,  
?S: not including the possible implicit bit.  
?S:.  
?C:DOUBLEMANTBITS:  
?C: This symbol, if defined, tells how many mantissa bits  
?C: there are in double precision floating point format.  
?C: Note that this is usually DBL_MANT_DIG minus one, since  
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes  
?C: the implicit bit, which doesn't really exist.  
?C:.  
?C:LONGDBLMANTBITS:  
?C: This symbol, if defined, tells how many mantissa bits  
?C: there are in long double precision floating point format.  
?C: Note that this can be LDBL_MANT_DIG minus one,  
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.  
?C: The common x86-style 80-bit long double does not have  
?C: an implicit bit.  
?C:.  
?C:NVMANTBITS:  
?C: This symbol, if defined, tells how many mantissa bits  
?C: (not  
including implicit bit) there are in a Perl NV.  
?C: This depends on which floating point type was chosen.  
?C:.  
?H:#define DOUBLEMANTBITS $doublemantbits  
?H:#define LONGDBLMANTBITS $longdblmantbits  
?H:#define NVMANTBITS $nvmantbits
```

```

?H:
?F:!try
: Check the length of the double mantissa
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
#endif
#include <stdio.h>
int main(int argc, char *argv[]) {
#ifdef BITS
printf("%d\n", BITS);
#endif
return 0;
}
EOP
set try
if eval $compile; then
doublemantbits=`$run ./try`
else
doublemantbits="$undef"
fi
$rm_try

```

```

: Check the length of the longdouble mantissa
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit. Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
# define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */

```

```

/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
* reason e.g. Irix thinks 107. But in any case, we want only
* the number of real bits, the implicit bits are of no interest. */
# define BITS 2 * (DBL_MANT_DIG - 1)
# else
# define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
main(int argc, char *argv[]) {
#ifdef BITS
printf("%d\n", BITS);
#endif
return 0;
}
EOP
set try
if eval $compile; then
    longdblmanbits=`$run ./try`
else
    longdblmanbits="$undef"
fi
$rm_try

```

: Check the length of the NV mantissa

```
$echo "Checking how many mantissa bits your NVs have..." >&4
```

```
if test "X$susequadmath" = "X$define"; then
```

```
    nvmantbits=112 # 128-1-15
```

```
else
```

```
    if test "X$nvsize" = "X$doublesize"; then
```

```
        nvmantbits="$doublemantbits"
```

```
    else
```

```
        if test "X$nvsize" = "X$longdblsize"; then
```

```
            nvmantbits="$longdblmanbits"
```

```
        else
```

```
            nvmantbits="$undef"
```

```
        fi
```

```
    fi
```

```
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/mantbits.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_memalign.U,v \$  
?RCS:  
?MAKE:d\_memalign: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_memalign:  
?S: This variable conditionally defines the HAS\_MEMALIGN symbol, which  
?S: indicates to the C program that the memalign() routine is available.  
?S:.  
?C:HAS\_MEMALIGN :  
?C: This symbol, if defined, indicates that the memalign routine is  
?C: available to allocate aligned memory.  
?C:.  
?H:#\$d\_memalign HAS\_MEMALIGN /\*\*/  
?H:.  
?LINT:set d\_memalign  
: see if memalign exists  
set  
memalign d\_memalign  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_memalign.U

No license file was found, but licenses were detected in source scan.

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?RCS:  
?MAKE:d\_timegm: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_timegm:  
?S: This variable conditionally defines the HAS\_TIMEGM symbol, which  
?S: indicates to the C program that the timegm () routine is available.  
?S:.  
?C:HAS\_TIMEGM:  
?C: This symbol, if defined, indicates that the timegm routine is

?C: available to do the opposite of gmtime ()

?C:.

?H:#\$d\_timegm HAS\_TIMEGM /\*\*/

?H:.

?LINT:set d\_timegm

: see if timegm exists

set timegm d\_timegm

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_timegm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: registers.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:19:41 ram

?RCS: patch61: removed empty ?LINT lines

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:28:33 ram

?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:41 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \

reg12 reg13 reg14 reg15 reg16: awk rm Cppsym

Myread Oldconfig

?MAKE: -pick add \$@ %<

?S:registers:

?S: This variable contains the number of register declarations paid

?S: attention to by the C compiler.

?S:.

?S:reg1:

?S: This variable, along with reg2, reg3, etc. contains the eventual

?S: value for the symbols register1, register2, register3, etc. It has

?S: either the value "register" or is null.

?S:.

?C:register1:



?C: This symbol, along with register2, register3, etc. is either the word  
?C: "register" or null, depending on whether the C compiler pays attention  
?C: to this many register declarations. The intent is that you don't have  
?C: to order your register declarations in the order of importance, so you  
?C: can freely declare register variables in sub-blocks of code and as  
?C: function parameters. Do not use register<n> more than once per routine.

?C:.

?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11

?LINT:describe reg12 reg13 reg14 reg15 reg16

?LINT:known register2 register3 register4 register5 register6  
register7

?LINT:known register8 register9 register10 register11 register12 register13

?LINT:known register14 register15 register16

?H:#define register1 \$reg1 /\*\*/

?H:#define register2 \$reg2 /\*\*/

?H:#define register3 \$reg3 /\*\*/

?H:#define register4 \$reg4 /\*\*/

?H:#define register5 \$reg5 /\*\*/

?H:#define register6 \$reg6 /\*\*/

?H:#define register7 \$reg7 /\*\*/

?H:#define register8 \$reg8 /\*\*/

?H:#define register9 \$reg9 /\*\*/

?H:#define register10 \$reg10 /\*\*/

?H:#define register11 \$reg11 /\*\*/

?H:#define register12 \$reg12 /\*\*/

?H:#define register13 \$reg13 /\*\*/

?H:#define register14 \$reg14 /\*\*/

?H:#define register15 \$reg15 /\*\*/

?H:#define register16 \$reg16 /\*\*/

?H:.

?F:!.foo

: see how many register declarations we want to use

case "\$registers" in

")

if ./Cppsym vax; then

    dflt=6

elif ./Cppsym sun mc68000 mips; then

    dflt=10

elif ./Cppsym pyr; then

    dflt=14

elif ./Cppsym ns32000 ns16000; then

    dflt=5

elif ./Cppsym \$smallmach; then

    dflt=3

else

    : if you have any other numbers

for me, please send them in

    dflt=6

```

fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

```

Different C compilers on different machines pay attention to different numbers of register declarations. About how many register declarations in each routine does your C compiler pay attention to? (OK to guess)

```

EOM
rp="Maximum register declarations?"
./myread
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d=\\n\\\", i} \" \
</dev/null >.foo
./foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\\n\\\", i} \" \
</dev/null >.foo
./foo
$rm -f .foo

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/registers.U

```

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```

?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2 1994/10/29 15:52:53 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1 1994/05/06 14:03:00 ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:53 ram

```

```

?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
with tildes. The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "$1" in
|~/*/~)
echo \ $1 | $sed "s|~|${HOME-\\$LOGDIR}|"
;;
|~*)
if $test -f /bin/csh; then
/bin/csh -f -c "glob \ $1"
failed=\ $?
echo ""
exit \ $failed
else
name=\ ` $expr x\ $1 : '.*\ ([^/]*)\ `
dir=\ ` $sed -n -e "/^\${name} :/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^\)]*\).*\$"/^1/" -e p -e q -e '}' </etc/passwd`
if $test ! -d "\ $dir"; then
me=\ `basename \ $0`
echo "\ $me: can't locate home directory for: \ $name" >&2
exit 1
fi
case "\ $1" in
*/*)
echo \ $dir/\ ` $expr x\ $1 : '.*\ ([^/]*\ ([^.]*)\ `
;;
*)
echo \ $dir
;;
esac
fi
;;
*)

```

```
echo \$1
;;
esac
EOSS
chmod
+x filexp
$unicefix filexp
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Filexp.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_strcoll.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:12:01 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:d\_strcoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strcoll:

?S: This variable conditionally defines HAS\_STRCOLL if strcoll() is

?S: available to compare strings using collating information.

?S:.

?C:HAS\_STRCOLL:

?C: This symbol, if defined, indicates that the strcoll routine

is

?C: available to compare strings using collating information.

?C:.

?H:#\$d\_strcoll HAS\_STRCOLL /\*\*/

?H:.

?LINT:set d\_strcoll

: see if strcoll exists

set strcoll d\_strcoll

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strcoll.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endpwent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_endpwent\_r endpwent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_pwd extern\_C

?MAKE: -pick add \$@ %<

?S:d\_endpwent\_r:

?S: This variable conditionally defines the HAS\_ENDPWENT\_R symbol,

?S: which indicates to the C program that the endpwent\_r()

?S: routine is available.

?S:.

?S:endpwent\_r\_proto:

?S: This variable encodes the prototype of endpwent\_r.

?S: It is zero if d\_endpwent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endpwent\_r

?S: is defined.

?S:.

?C:HAS\_ENDPWENT\_R:

?C: This symbol, if defined, indicates that the endpwent\_r routine

?C: is available to

endpwent re-entrantly.

?C:.

?C:ENDPWENT\_R\_PROTO:

?C: This symbol encodes the prototype of endpwent\_r.

?C: It is zero if d\_endpwent\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endpwent\_r

?C: is defined.

?C:.

?H:#\$d\_endpwent\_r HAS\_ENDPWENT\_R /\*\*/

?H:#define ENDPWENT\_R\_PROTO \$endpwent\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_endpwent\_r\_proto

: see if endpwent\_r exists

set endpwent\_r d\_endpwent\_r

eval \$inlibc

case "\$d\_endpwent\_r" in

"\$define")

hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_pwd pwd.h"

case "\$d\_endpwent\_r\_proto:\$usethreads" in

```

":define") d_endpwent_r_proto=define
set d_endpwent_r_proto endpwent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_endpwent_r_proto" in
define)
case "$endpwent_r_proto" in
"|0) try='int endpwent_r(FILE**);'
./protochk "$sextern_C $try" $hdrs && endpwent_r_proto=I_H ;;
esac
case "$endpwent_r_proto" in
"|0) try='void endpwent_r(FILE**);'
./protochk "$sextern_C $try" $hdrs && endpwent_r_proto=V_H ;;
esac
case "$endpwent_r_proto"
in
"|0) d_endpwent_r=undef
endpwent_r_proto=0
echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
* ) case "$endpwent_r_proto" in
REENTRANT_PROTO*) ;;
*) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "endpwent_r has no prototype, not using it." >&4 ;;
esac
d_endpwent_r=undef
endpwent_r_proto=0
;;
esac
;;
*) endpwent_r_proto=0
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_endpwent_r.U

```

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?RCS: \$Id: d\_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_regcmp.U,v \$  
?RCS: Revision 3.0.1.1 1995/01/30 14:34:45 ram  
?RCS: patch49: now looks for POSIX regcomp() routine  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:06:53 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_regcmp d\_re\_comp d\_regcomp: Csym cat  
?MAKE: -pick add \$@ %<  
?S:d\_regcomp:  
?S: This variable conditionally defines the HAS\_REGCOMP symbol, which  
?S: indicates to the C program that the regcomp() routine is available  
?S: for regular  
pattern matching (usally on POSIX.2 conforming systems).  
?S:.  
?S:d\_regcmp:  
?S: This variable conditionally defines the HAS\_REGCMP symbol, which  
?S: indicates to the C program that the regcmp() routine is available  
?S: for regular pattern matching (usally on System V).  
?S:.  
?S:d\_re\_comp:  
?S: This variable conditionally defines the HAS\_RECOMP symbol, which  
?S: indicates to the C program that the re\_comp() routine is available  
?S: for regular pattern matching (usally on BSD). If so, it is likely that  
?S: re\_exec() exists.  
?S:.  
?C:HAS\_REGCOMP (REGCOMP):  
?C: This symbol, if defined, indicates that the regcomp() routine is  
?C: available to do some regular pattern matching (usually on POSIX.2  
?C: conforming systems).  
?C:.  
?C:HAS\_REGCMP (REGCMP):  
?C: This symbol, if defined, indicates that the regcmp() routine is  
?C: available to do some regular pattern matching (usually on System V).  
?C:.  
?C:HAS\_RECOMP (RECOMP):  
?C: This symbol, if defined, indicates that the re\_comp() routine is  
?C: available  
to do some regular pattern matching (usually on BSD). If so,  
?C: it is likely that re\_exec() be available.  
?C:.  
?H:#\$d\_regcomp HAS\_REGCOMP /\* POSIX.2 \*/

```

?H:#$d_regcmp HAS_REGCMP /* sysV */
?H:#$d_re_comp HAS_RECOMP /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
echo 'regcomp() found.' >&4
d_regcomp="$define"
d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
echo 'regcmp() found.' >&4
d_regcomp="$define"
d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
echo 're_comp() found, assuming re_exec() also exists.' >&4
d_re_comp="$define"
d_regcomp="$undef"
d_re_comp="$undef"
else
$cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
d_re_comp="$undef"
d_re_comp="$undef"
d_regcomp="$undef"
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_regcmp.U

```

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?RCS:

?RCS: \$Log: usenm.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:26:40 ram

?RCS: patch61: don't use nm with the GNU C library



```

?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:57 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library. Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
in
")
dflt="
case "$d_gnulibc" in
"$define")
echo " "
echo "$nm probably won't work on the GNU C Library." >&4
dflt=n
;;
esac
case "$dflt" in
")
if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then

```

```

echo " "
echo "Whoops! This is an AIX system without /lib/syscalls.exp!" >&4
echo "'nm' won't be sufficient on this system." >&4
dflt=n
fi
;;
esac
case "$dflt" in
")
if ./gnu; then
echo " "
echo "Hmm... A GNU system without a GNU C Library? Weird..." >&4
dflt=n
else
dflt=`$grep 'inlibc|csym' $src/Configure | wc -l 2>/dev/null`
if $test $dflt -gt 20; then
dflt=y
else
dflt=n
fi
fi
;;
esac
;;
*)
case "$usenm" in
true|$define) dflt=y;;
*) dflt=n;;
esac
;;
esac
$cat <<EOM

```

I can use \$nm to extract the symbols from your C libraries. This is a time consuming task which may generate huge output on the disk (up to 3 megabytes) but that should make the symbols extraction faster. The alternative is to skip the 'nm' extraction part and to compile a small test program instead to determine whether each symbol is present. If you have a fast C compiler and/or if your 'nm' output cannot be parsed, this may be the best solution.

```

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;

```

esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag  
?X: was provided to configure (in which case we simply re-use the previous  
?X: values).

```
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac
```

: nm options which may be necessary

```
case "$nm_opt" in
") if $test -f /mach_boot; then
nm_opt=" # Mach
elif $test -d /usr/ccs/lib; then
nm_opt='-p' # Solaris (and SunOS?)
elif $test -f /dgux; then
nm_opt='-p' # DG-UX
elif $test -f /lib64/rld; then
nm_opt='-p' # 64-bit Irix
else
nm_opt="
fi;;
esac
```

?X: nm options which may be necessary for shared libraries but illegal  
?X: for archive libraries. Thank you,  
Linux.

```
case "$nm_so_opt" in
") case "$osname" in
*linux*)
if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
nm_so_opt='--dynamic'
fi
;;
esac
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/usernm.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: cc.U,v \$  
?RCS: Revision 3.0.1.4 1995/05/12 12:06:47 ram  
?RCS: patch54: may now abort Configure when cc does not work  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/11 15:20:11 ram  
?RCS: patch45: changed gcc checking message to a more explicit one (WED)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/29 16:04:29 ram  
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)  
?RCS: patch36: simplified gcc version checking (ADO)  
?RCS: patch36: added ?F: line for metalint  
file checking  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 14:26:06 ram  
?RCS: patch23: added support for gcc version (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:30 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:cc: Myread Oldconfig Checkcc test  
?MAKE: -pick add \$@ %<  
?S:cc:  
?S: This variable holds the name of a command to execute a C compiler which  
?S: can resolve multiple global references that happen to have the same  
?S: name. Usual values are 'cc' and 'gcc'.  
?S: Ferrent ANSI compilers may be called 'c89'. AIX has xlc.  
?S:.  
?F:!cc.cbu  
?D:cc='cc'  
: Determine the C compiler to be used  
echo " "  
case "\$cc" in  
") dflt=cc;;  
\*) dflt="\$cc";;  
esac  
rp="Use which C compiler?"  
./myread  
cc="\$ans"  
  
: See whether they have no cc but they do have gcc  
./trygcc  
?X: Look for a hint-file generated 'call-back-unit'. Now that the

```
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
    ./cc.cbu
fi
./checkcc
```

#### Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cf\_who.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:28:50 ram

?RCS: patch61: new computation method avoiding use of temporary file

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:42:34 ram

?RCS: patch23: login name now computed the hard way

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:32 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Oldconfig dependency is there to ensure computation occurs after old values

?X: from config.sh have been loaded, so that we can supersede them.

?X:

?MAKE:cf\_time

cf\_by: date Oldconfig

?MAKE: -pick add \$@ %<

?S:cf\_time:

?S: Holds the output of the "date" command when the configuration file was

?S: produced. This is used to tag both config.sh and config\_h.SH.

?S:.

?S:cf\_by:

?S: Login name of the person who ran the Configure script and answered the

?S: questions. This is used to tag both config.sh and config\_h.SH.

?S:.

?LINT:change LC\_ALL LANGUAGE  
: who configured the system  
?X: Ensure English date -- Jarkko Hietaniemi  
cf\_time=`LC\_ALL=C; LANGUAGE=C; export LC\_ALL; export LANGUAGE; \$date 2>&1`  
?X:  
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed  
?X: on some machines to avoid the error message when logname is not found; e.g.  
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was  
?X: not found. Sigh!  
?X:  
?X: Convex had a broken logname executable which returned a non-zero status,  
?X: and that broke the previous:  
?X: cf\_by=`(logname) 2>/dev/null || whoami) 2>&1`  
?X: Switch to emergency  
mode... -- RAM, 19/04/94  
?X:  
?X: Parentheses needed to avoid error message if the program does not exist.  
?X: Uses case instead of \$test so it can be put before \$test is defined.  
?X: Don't redirect to a file because on Ultrix (under script?) logname  
?X: outputs a blank line first. This method will apparently work.  
case "\$cf\_by" in  
"")  
cf\_by=`(logname) 2>/dev/null`  
case "\$cf\_by" in  
"")  
cf\_by=`(whoami) 2>/dev/null`  
case "\$cf\_by" in  
"") cf\_by=unknown ;;  
esac ;;  
esac ;;  
esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cf\_who.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_getnent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_getnent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_getnent:  
?S: This variable conditionally defines HAS\_GETNETENT if getnetent() is  
?S: available to look up network names in some data base or another.  
?S:.  
?C:HAS\_GETNETENT:  
?C: This symbol, if defined, indicates that the getnetent() routine is  
?C: available to look up network names in some data base  
or another.  
?C:.  
?H:#\$d\_getnent HAS\_GETNETENT /\*\*/  
?H:.  
?LINT:set d\_getnent  
: see if getnetent exists  
set getnetent d\_getnent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getnent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: i\_ndbm.U,v \$  
?RCS: Revision 3.0.1.1 1995/05/12 12:16:53 ram  
?RCS: patch54: made more robust by checking both header and lib (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:23 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:i\_ndbm i\_gdbmndbm i\_gdbm\_ndbm d\_ndbm d\_ndbm\_h\_uses\_prototypes \  
d\_gdbmndbm\_h\_uses\_prototypes d\_gdbm\_ndbm\_h\_uses\_prototypes: \  
Inhdr Inlibc Setvar test d\_cplusplus extern\_C echo Protochk  
?MAKE: -pick add \$@ %<  
?S:i\_ndbm:

?S: This variable conditionally defines the I\_NDBM symbol, which

?S: indicates to the C program that <ndbm.h> exists and should

?S: be included.

?S:.

?C:I\_NDBM:

?C: This symbol, if defined, indicates that <ndbm.h> exists and should

?C: be included.

?C:.

?S:i\_gdbmndbm:

?S: This variable conditionally defines the I\_GDBMNDBM symbol, which

?S: indicates to the C program that <gdbm/ndbm.h> exists and should

?S: be included. This was the location of the ndbm.h compatibility file

?S: in RedHat 7.1.

?S:.

?C:I\_GDBMNDBM:

?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should

?C: be included. This was the location of the ndbm.h compatibility file

?C: in RedHat 7.1.

?C:.

?S:i\_gdbm\_ndbm:

?S: This variable conditionally defines the I\_GDBM\_NDBM symbol, which

?S: indicates to the C program that <gdbm-ndbm.h> exists and should

?S: be included. This is the location of the ndbm.h compatibility file

?S: in Debian 4.0.

?S:.

?C:I\_GDBM\_NDBM:

?C: This symbol, if defined, indicates

that <gdbm-ndbm.h> exists and should

?C: be included. This is the location of the ndbm.h compatibility file

?C: in Debian 4.0.

?C:.

?S:d\_ndbm:

?S: This variable conditionally defines the HAS\_NDBM symbol, which

?S: indicates that both the ndbm.h include file and an appropriate ndbm

?S: library exist. Consult the different i\_\*ndbm variables

?S: to find out the actual include location. Sometimes, a system has the

?S: header file but not the library. This variable will only be set if

?S: the system has both.

?S:.

?C:HAS\_NDBM:

?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility

?C: include exists, along with the appropriate library.

?C:.

?S:d\_ndbm\_h\_uses\_prototypes:

?S: This variable conditionally defines the NDBM\_H\_USES\_PROTOTYPES symbol,

?S: which indicates that the ndbm.h include file uses real ANSI C

?S: prototypes instead of K&R style function declarations. K&R style



?S: declarations are unsupported in C++, so the include file requires  
?S: special handling  
when using a C++ compiler and this variable is  
?S: undefined. Consult the different d\_\*ndbm\_h\_uses\_prototypes variables  
?S: to get the same information for alternative ndbm.h include files.  
?S:.  
?C:NDBM\_H\_USES\_PROTOTYPES:  
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C  
?C: prototypes instead of K&R style function declarations without any  
?C: parameter information. While ANSI C prototypes are supported in C++,  
?C: K&R style function declarations will yield errors.  
?C:.  
?S:d\_gdbmndbm\_h\_uses\_prototypes:  
?S: This variable conditionally defines the NDBM\_H\_USES\_PROTOTYPES symbol,  
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C  
?S: prototypes instead of K&R style function declarations. K&R style  
?S: declarations are unsupported in C++, so the include file requires  
?S: special handling when using a C++ compiler and this variable is  
?S: undefined. Consult the different d\_\*ndbm\_h\_uses\_prototypes variables  
?S: to get the same information for alternative  
ndbm.h include files.  
?S:.  
?C:GDBMNDBM\_H\_USES\_PROTOTYPES:  
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C  
?C: prototypes instead of K&R style function declarations without any  
?C: parameter information. While ANSI C prototypes are supported in C++,  
?C: K&R style function declarations will yield errors.  
?C:.  
?S:d\_gdbm\_ndbm\_h\_uses\_prototypes:  
?S: This variable conditionally defines the NDBM\_H\_USES\_PROTOTYPES symbol,  
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C  
?S: prototypes instead of K&R style function declarations. K&R style  
?S: declarations are unsupported in C++, so the include file requires  
?S: special handling when using a C++ compiler and this variable is  
?S: undefined. Consult the different d\_\*ndbm\_h\_uses\_prototypes variables  
?S: to get the same information for alternative ndbm.h include files.  
?S:.  
?C:GDBM\_NDBM\_H\_USES\_PROTOTYPES:  
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C  
?C: prototypes  
instead of K&R style function declarations without any  
?C: parameter information. While ANSI C prototypes are supported in C++,  
?C: K&R style function declarations will yield errors.  
?C:.  
?H:#\$i\_ndbm I\_NDBM /\*\*/  
?H:#\$i\_gdbmndbm I\_GDBMNDBM /\*\*/  
?H:#\$i\_gdbm\_ndbm I\_GDBM\_NDBM /\*\*/  
?H:#\$d\_ndbm HAS\_NDBM /\*\*/

```

?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr

val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
: see if dbm_open exists
set
dbm_open d_dbm_open
eval $inlibc
case "$d_dbm_open" in
$undef)
i_ndbm="$undef"
i_gdbmndbm="$undef"
i_gdbm_ndbm="$undef"
echo "We won't be including <ndbm.h>"
val="$undef"
;;
*) val="$define"
;;
esac
fi
set d_ndbm
eval $setvar

ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\${i}_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
$echo "Checking if your <$hdr> uses prototypes..." >&4;
case "$d_cplusplus" in
$define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" { \"$ihdr $hdr literal }" &&
val="$define" ;;
*) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
esac;

```

```
case "$val" in
$define) $echo "Your <$hdr> seems to have prototypes";
*) $echo "Your <$hdr> does not seem to have prototypes";;
esac;
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'
```

```
set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk
```

Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_ndbm.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_getpgrp.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:34:28 ram

?RCS: patch61: new USE\_BSD\_GETPGRP to detect the getpgrp() flavour

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:15 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_getpgrp d\_bsdgetpgrp: Guess Inlibc Setvar cat rm \

+cc +ccflags +ldflags +libs i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_getpgrp:

?S: This variable conditionally defines HAS\_GETPGRP if getpgrp() is

?S: available to get the current process group.

?S:.

?S:d\_bsdgetpgrp:

?S: This

variable conditionally defines USE\_BSD\_GETPGRP if  
 ?S: getpgrp needs one arguments whereas USG one needs none.  
 ?S:.  
 ?C:HAS\_GETPGRP (GETPGRP):  
 ?C: This symbol, if defined, indicates that the getpgrp routine is  
 ?C: available to get the current process group.  
 ?C:.  
 ?C:USE\_BSD\_GETPGRP:  
 ?C: This symbol, if defined, indicates that getpgrp needs one  
 ?C: arguments whereas USG one needs none.  
 ?C:.  
 ?H:#\$d\_getpgrp HAS\_GETPGRP /\*\*/  
 ?H:#\$d\_bsdgetpgrp USE\_BSD\_GETPGRP /\*\*/  
 ?H:.  
 ?F:!set !set.c  
 ?T:xxx  
 ?LINT:set d\_getpgrp d\_bsdgetpgrp  
 : see if getpgrp exists  
 set getpgrp d\_getpgrp  
 eval \$inlibc

```
@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
echo " "
echo "Checking to see which flavor of getpgrp is in use..."
$cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
# include <unistd.h>
#endif
int main()
{
if (getuid() == 0) {
printf("(I see you are running Configure as super-user...)\n");
setuid(1);
}
#ifdef TRY_BSD_PGRP
if (getpgrp(1) ==
0)
exit(0);
#else
if (getpgrp() > 0)
exit(0);
#endif
exit(1);
}
```

```

EOP
if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
    xxx="a USG one, i.e. you use getpgrp()."
  else
    # SVR4 systems can appear rather BSD-ish.
    case "$i_unistd" in
      $undef)
        xxx="a BSD one, i.e. you use getpgrp(pid)."
        val="$define"
        ;;
      $define)
        xxx="probably a USG one, i.e. you use getpgrp()."
        val="$undef"
        ;;
    esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
$rm -f set set.c
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_getpgrp.U

```

No license file was found, but licenses were detected in source scan.

```

# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of

```

```
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1 1994/01/24 14:00:00 ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0 1993/08/18 12:04:36 ram
# Baseline for dist 3.0 netwide release.
#
```

```
case $CONFIG in
")
if test -f config.sh; then TOP=.;
elif test -f ../config.sh; then TOP=../.;
elif test -f ../../config.sh; then TOP=../../.;
elif test -f ../../../config.sh; then TOP=../../../.;
elif
test -f ../../../../config.sh; then TOP=../../../../.;
else
echo "Can't find config.sh."; exit 1
fi
. $TOP/config.sh
;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*/'` ;;
esac
case "$Serrnolistic" in
") ;;
*)
echo "Making Serrnolistic ..."
awk -f errnolist.a < /usr/include/sys/errno.h > Serrnolistic
echo "It would be a good idea to make sure that Serrnolistic is correct."
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/lib/errnolist.SH
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libpth.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 16:08:49 ram

?RCS: patch61: new loclibpth variable

?RCS:

?RCS: Revision 3.0.1.5 1995/01/11 15:31:30 ram

?RCS: patch45: call ./mips instead of just mips (WED)

?RCS:

?RCS: Revision 3.0.1.4 1994/08/29 16:29:15 ram

?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)

?RCS: patch32: fixed information message, making it clearer (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:03:54  
ram

?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries

?RCS:

?RCS: Revision 3.0.1.2 1994/05/13 15:26:57 ram

?RCS: patch27: fixed a typo (libpth -> glibpth)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:07:53 ram

?RCS: patch23: now asks for library directories to be searched (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit initializes the path for C library lookup.

?X:

?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \  
usrinc incpath test cat Myread Oldconfig sysroot osname \  
ccname echo cppstdin awk grep sed rm usecrosscompile

?MAKE: -pick add \$@ %<

?S:libpth:

?S: This variable holds the general path (space-separated) used to find

?S: libraries. It is intended to be used by other units.

?S:.

?S:glibpth:

?S: This variable holds the general path (space-separated) used to

?S: find libraries. It may contain directories that do not exist on

?S: this platform, libpth is the cleaned-up

version.

?S:.

?S:xlibpth:

?S: This variable holds extra path (space-separated) used to find

?S: libraries on this platform, for example CPU-specific libraries  
 ?S: (on multi-CPU platforms) may be listed here.  
 ?S:.  
 ?S:loclibpth:  
 ?S: This variable holds the paths (space-separated) used to find local  
 ?S: libraries. It is prepended to libpth, and is intended to be easily  
 ?S: set from the command line.  
 ?S:.  
 ?S:plibpth:  
 ?S: Holds the private path used by Configure to find out the libraries.  
 ?S: Its value is prepend to libpth. This variable takes care of special  
 ?S: machines, like the mips. Usually, it should be empty.  
 ?S:.  
 ?S:incpth:  
 ?S: This variable must precede the normal include path to get the  
 ?S: right one, as in "\$incpath/usr/include" or "\$incpath/usr/lib".  
 ?S: Value can be "" or "/bsd43" on mips.  
 ?S:.  
 ?T: xxx dlist i j croak  
 ?LINT:extern incpth  
 ?LINT:change usrincl  
 ?INIT:: change the next line if compiling for Xenix/286 on Xenix/386  
 ?INIT:xlibpth="/usr/lib/386 /lib/386"  
 ?INIT::  
 Possible local library directories to search.  
 ?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"  
 ?INIT:loclibpth="\$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"  
 ?INIT:  
 ?INIT:: general looking path for locating libraries  
 ?INIT:glibpth="/lib /usr/lib \$xlibpth"  
 ?INIT:glibpth="\$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"  
 ?X: /shlib is for Digital Unix 4.0  
 ?X: /usr/shlib is for OSF/1 systems.  
 ?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib \$glibpth"  
 ?INIT:test -f /shlib/libc.so && glibpth="/shlib \$glibpth"  
 ?INIT:test -d /usr/lib64 && glibpth="\$glibpth /lib64 /usr/lib64 /usr/local/lib64"  
 ?INIT:  
 ?INIT:: Private path used by Configure to find libraries. Its value  
 ?INIT:: is prepended to libpth. This variable takes care of special  
 ?INIT:: machines, like the mips. Usually, it should be empty.  
 ?INIT:plibpth="  
 ?INIT:  
 ?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h  
 ?T:cppfilter  
 : Adjust cppfilter for path component separator  
 case  
 "\$osname" in  
 vos) cppfilter="tr '\\\\>' '/' |" ;; # path component separator is >



```
os2) cppfilter="sed -e 's|\\\\\\\\\\\\\\\\/g'|" ;; # path component separator is \
*) cppfilter="" ;;
esac
```

```
: Use gcc to determine libpth and incpth
```

```
# If using gcc or clang, we can get better values for libpth, incpth
```

```
# and usrincl directly from the compiler.
```

```
# Note that cname for clang is also gcc.
```

```
case "$cname" in
```

```
gcc)
```

```
$echo 'extern int foo;' > try.c
```

```
set X `Scppstdin -v try.c 2>&1 | Sawk '/^#include </,/^End of search /'|Scppfilter $grep '/include`
shift
```

```
if $test $# -gt 0; then
```

```
  incpth="$incpth $*"
```

```
  incpth="$echo $incpth|Ssed 's/^ //"
```

```
  for i in $*; do
```

```
    j="$echo $i|Ssed 's,/include$/lib,`"
```

```
  if $test -d $j; then
```

```
    libpth="$libpth $j"
```

```
  fi
```

```
done
```

```
libpth="$echo $libpth|Ssed 's/^ //"
```

```
for xxx in $libpth $loclibpth $plibpth $glibpth; do
```

```
if $test -d $xxx; then
```

```
  case "$libpth" in
```

```
  "*" $xxx *) ;;
```

```
  *) libpth="$libpth $xxx";;
```

```
  esac
```

```
fi
```

```
done
```

```
fi
```

```
$rm -f try.c
```

```
case "$usrinc" in
```

```
*) for i in $incpth; do
```

```
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
```

```
    usrinc="$i"
```

```
    break
```

```
  fi
```

```
done
```

```
::
```

```
esac
```

```
case "$usecrosscompile" in
```

```
$define[true[YY]*)
```

```
  case "$incpth" in
```

```
  *) echo "Incpth not defined." >&4; croak=y ;;
```

```

*) echo "Using incpth '$incpth'." >&4 ;;
  esac
  case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*) echo "Using libpth '$libpth'." >&4 ;;
  esac
  case "$usrinc" in
") echo "Usrcinc not defined." >&4; croak=y ;;
*) echo "Using usrinc $usrinc." >&4 ;;
  esac
  case "$croak" in
y)
if test "X$sysroot" = X; then
  echo "Cannot continue, aborting." >&4; exit 1
else
  echo "Cross-compiling using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
fi
;;
  esac
;;
esac
;;
esac
;;
esac

```

: Default value for incpth is just usrinc

```

case "$incpth" in
") incpth="$usrinc";;
esac

```

: Set private lib path

```

case
"$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
  fi;;
esac
case "$libpth" in
' ') dlist="";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

```

: Now check and see which directories actually exist, avoiding duplicates

```

for xxx in $dlist
do
  if $test -d $xxx; then
  case " $libpth " in

```

```
*" $xxx "*" ;;
*) libpth="$libpth $xxx";;
esac
fi
done
$cat <<'EOM'
```

Some systems have incompatible or broken versions of libraries. Among the directories listed in the question below, please remove any you know not to be holding relevant libraries, and add any that are needed. Say "none" for none.

EOM

```
if test "X$sysroot" != X; then
```

```
  $cat <<EOM
```

You have set sysroot to \$sysroot, please supply the directories excluding sysroot

EOM

```
fi
```

```
case "$libpth" in
```

```
  ") dflt='none';;
```

```
  *)
```

```
    ?X: strip leading space
```

```
    set X $libpth
```

```
    shift
```

```
    dflt=${1+"$@"}
```

```
    ;;
```

```
  esac
```

```
rp="Directories
```

```
to use for library searches?"
```

```
./myread
```

```
case "$ans" in
```

```
  none) libpth=' ';;
```

```
  *) libpth="$ans";;
```

```
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/libpth.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_setproctitle: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setproctitle:

?S: This variable conditionally defines the HAS\_SETPROCTITLE symbol,

?S: which indicates to the C program that the setproctitle() routine

?S: is available.

?S:.

?C:HAS\_SETPROCTITLE:

?C: This symbol, if defined, indicates that the setproctitle routine is

?C: available to set process title.

?C:.

?H:#\$d\_setproctitle HAS\_SETPROCTITLE /\*\*/

?H:.

?LINT:set d\_setproctitle

: see if setproctitle exists

set setproctitle d\_setproctitle

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_setproctitle.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getprotby.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getpbyname d\_getpbynumber: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getpbyname:

?S: This variable conditionally defines the HAS\_GETPROTOBYNAME

?S: symbol, which indicates to the C program that the

?S: getprotobynumber() routine is available to look up protocols

?S: by their name.

?S:.

?S:d\_getpbynumber:

?S: This variable conditionally defines the HAS\_GETPROTOBYNUMBER

?S: symbol, which indicates to the C program that the

?S: getprotobynumber() routine is available to look up protocols

?S: by their number.

?S:.

?C:HAS\_GETPROTOBYNAME:

?C: This symbol, if defined, indicates that the getprotobynumber()

?C: routine is available to look up protocols by their name.  
?C:.  
?C:HAS\_GETPROTOBYNUMBER:  
?C: This  
symbol, if defined, indicates that the getprotobyname()  
?C: routine is available to look up protocols by their number.  
?C:.  
?H:#\$d\_getpbyname HAS\_GETPROTOBYNAME /\*\*/  
?H:#\$d\_getpbynumber HAS\_GETPROTOBYNUMBER /\*\*/  
?H:.  
?LINT:set d\_getpbyname d\_getpbynumber  
: Optional checks for getprotobyname and getprotobynumber

```
@if d_getpbyname || HAS_GETPROTOBYNAME  
: see if getprotobyname exists  
set getprotobyname d_getpbyname  
eval $inlibc  
@end
```

```
@if d_getpbynumber || HAS_GETPROTOBYNUMBER  
: see if getprotobynumber exists  
set getprotobynumber d_getpbynumber  
eval $inlibc  
@end
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getprotby.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: Oldconfig.U,v \$  
?RCS: Revision 3.0.1.10 1997/02/28 15:06:39 ram  
?RCS: patch61: added support for src.U  
?RCS: patch61: new OSNAME define  
?RCS: patch61: can now sense new OSes  
?RCS:  
?RCS: Revision 3.0.1.9 1995/07/25 13:40:51 ram  
?RCS: patch56: now knows about OS/2 platforms

?RCS:  
?RCS: Revision 3.0.1.8 1995/05/12 12:04:18 ram  
?RCS: patch54: config.sh reload logic now knows about new -K switch  
?RCS: patch54: cleaned up and extended osvers for DEC  
OSF/1 (ADO)  
?RCS: patch54: added MachTen detection (ADO)  
?RCS:  
?RCS: Revision 3.0.1.7 1995/02/15 14:13:41 ram  
?RCS: patch51: adapted osvers computation for AIX (ADO)  
?RCS:  
?RCS: Revision 3.0.1.6 1995/01/30 14:27:15 ram  
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable  
?RCS: patch49: update code for myuname changed (WED)  
?RCS:  
?RCS: Revision 3.0.1.5 1995/01/11 15:15:36 ram  
?RCS: patch45: added quotes around the INITPROG variable (ADO)  
?RCS: patch45: allows variable overriding after config file loading  
?RCS:  
?RCS: Revision 3.0.1.4 1994/10/29 15:57:05 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS: patch36: merged with the version used for perl5's Configure (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/05/06 14:24:17 ram  
?RCS: patch23: added support for osf1 hints  
?RCS: patch23: new support for solaris and i386 systems (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/01/24 14:05:02 ram  
?RCS: patch16: added post-processing on myuname for Xenix targets  
?RCS:  
patch16: message proposing config.sh defaults made consistent  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 15:56:32 ram  
?RCS: patch10: force use of config.sh when -d option is used (WAD)  
?RCS: patch10: complain about non-existent hint files (WAD)  
?RCS: patch10: added Options dependency for fastread variable  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:12 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit tries to remember what we did last time we ran Configure, mostly  
?X: for the sake of setting defaults.  
?X:  
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \  
Checkcc Mksymlinks run \  
sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln  
?MAKE: -pick wipe \$@ %<  
?S:myuname:

?S: The output of 'uname -a' if available, otherwise the hostname.

?S: The whole thing is then lower-cased and slashes and single quotes are removed.

?S:.

?S:hint:

?S: Gives the type of hints used for previous answers. May be one of

?S: "default", "recommended" or "previous".

?S:.

?S:osname:

?S: This variable contains the operating system name (e.g. sunos, solaris, hpux, etc.). It can be useful later on for setting defaults. Any spaces are replaced with underscores. It is set to a null string if we can't figure it out.

?S:.

?S:osvers:

?S: This variable contains the operating system version (e.g. 4.1.3, 5.2, etc.). It is primarily used for helping select an appropriate hints file, but might be useful elsewhere for setting defaults. It is set to " if we can't figure it out.

?S: We try to be flexible about how much of the version number to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the same for this package, hints files might just be os\_4.0 or os\_4.1, etc., not keeping separate files for each little release.

?S:.

?C:OSNAME:

?C: This symbol contains the name of the operating system, as determined by Configure. You shouldn't rely on it too much; the specific feature tests from Configure are generally more reliable.

?C:.

?C:OSVERS:

?C: This symbol contains the version of the operating system, as determined by Configure. You shouldn't rely on it too much; the specific feature tests from Configure are generally more reliable.

?C:.

?H:#define OSNAME "\$osname" /\*\*/  
 ?H:#define OSVERS "\$osvers" /\*\*/  
 ?H:.

?F:!config.sh

?T:tmp tmp\_n tmp\_c tmp\_sh file

?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname

?T:tans \_ isesix INITPROG DJGPP

?D:osname="

?LINT:change n c sh

?LINT:extern targetarch

?LINT:extern hostarch

?LINT:change hostarch

```

?LINT:extern is_os2
: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
-a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,[/],g" | \
./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
dflt=n
case "$knowitall" in
")
if test -f ../config.sh; then
if $contains myuname= ../config.sh >/dev/null 2>&1; then
eval "`grep myuname= ../config.sh`"
fi
if test "X$myuname" = "X$newmyuname"; then
dflt=y
fi
fi
;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
cd ..
?X: Since we are now at the root of the source
tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
echo " "
rp="I see a config.sh file. Shall I use it to set the defaults?"

```



```

. UU/myread
case "$ans" in
n*|N*) echo "OK, I'll ignore it."
mv config.sh config.sh.old
myuname="$newmyuname"
;;
*) echo "Fetching default answers from your old config.sh file..." >&4
tmp_n="$n"
tmp_c="$c"
tmp_sh="$sh"
./config.sh
cp config.sh UU
n="$tmp_n"
c="$tmp_c"
: Older versions did not always set $sh. Catch re-use of such
: an old config.sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
hint=previous
;;
esac
fi
./UU/checkcc
if test ! -f config.sh; then
$cat <<EOM

```

First time through, eh? I have some defaults handy for some systems that need some extra help getting the Configure answers right:

EOM

```
(cd $src/hints; ls -C *.sh) | $sed 's/\./ /g' >&4
```

dflt="

: Half the following guesses are probably wrong... If you have better

: tests or hints,

please send them to <MAINTLOC>

: The metaconfig authors would also appreciate a copy...

```
$test -f /irix && osname=irix
```

```
$test -f /xenix && osname=sco_xenix
```

```
$test -f /dynix && osname=dynix
```

```
$test -f /dnix && osname=dnix
```

```
$test -f /lynx.os && osname=lynxos
```

```
$test -f /unicos && osname=unicos && osvers=`$uname -r`
```

```
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
```

```
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
```

```
$test -f /bin/mips && /bin/mips && osname=mips
```

```
$test -d /usr/apollo/bin && osname=apollo
```

```
$test -f /etc/saf/_sactab && osname=svr4
```

```

$test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
$test -f /system/gnu_library/bin/ar.pm && osname=vos
$test -f /sys/utilities/MultiView && osname=amigaos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X: MachTen uname -a output looks like
?X: xxx 4 0.0 Macintosh
?X: MachTen /sbin/version output looks like
?X: MachTen 4.0 Mon Aug 28 10:18:00 1995
?X: MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
  if
$test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//`
elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//`
else
  osvers="$2.$3"
fi
fi

```

```

$test -f /sys/posix.dll &&
$test -f /usr/bin/what &&
set X `usr/bin/what /sys/posix.dll` &&
$test "$3" = UWIN &&
osname=uwin &&
osvers="$5"

```

?X: If we have uname, we already computed a suitable uname -a output,  
?X: and it lies in \$myuname.

```

if $test -f $uname; then
set X $myuname
shift

```

```

case "$5" in
fps*) osname=fps ;;
mips*)
case "$4" in
umips) osname=umips ;;
*) osname=mips ;;
esac;;
[23]100) osname=mips ;;

```

?X: Interactive Unix.

```

i386*)
tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }`
if $test "$tmp" != "" -a "$3" = "3.2" -a -f /etc/systemid; then
osname='sco'

```

```

osvers=$tmp
elif $test -f /etc/kconfig; then
osname=isc
if
test "$lns" = "$ln -s"; then
osvers=4
elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
osvers=3
elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
osvers=2
fi
fi
tmp=""
;;

```

?X: MS-DOS djgpp uname -a output looks like:

?X: ms-dos xxx 6 22 pc

?X: \$1 is the "dos flavor" (need not be "ms-dos").

?X: \$2 is the node name

?X: \$3 and \$4 are version/subversion

?X: \$5 is always "pc", but that might not be unique to DJGPP.

?X: (e.g. Solaris\_x86 has \$5 = i86pc, which doesn't actually conflict,

?X: but it's close enough that I can easily imagine other vendors also

?X: using variants of pc\* in \$5.)

?X: The "DJGPP" environment variable is always set when djgpp is active.

pc\*)

```
if test -n "$DJGPP"; then
```

```
osname=dos
```

```
osvers=djgpp
```

```
fi
```

```
;;
```

```
esac
```

```
case "$1" in
```

```
aix) osname=aix
```

?X: aix 4.1 uname -a output looks like

?X: AIX foo 1 4 000123456789

?X: where \$4 is the major release number and \$3 is the (minor) version.

?X: More detail on the version is available with the oslevel command.

?X: in 3.2.x, it output a string (see case statements below). In 4.1,

?X: it puts out something like 4.1.1.0

```
tmp=`(oslevel) 2>/dev/null || echo "not found") 2>&1`
```

```
case "$tmp" in
```

```
# oslevel can fail with:
```

```
# oslevel: Unable to acquire lock.
```

```
*not\ found) osvers="$4"."$3" ;;
```

```
'<3240'|<>3240') osvers=3.2.0 ;;
```

```
'=3240'|>3240'|<3250'|<>3250') osvers=3.2.4 ;;
```

```

'=3250'|>3250') osvers=3.2.5 ;;
*) osvers=$tmp;;
esac
;;
bitrig) osname=bitrig
osvers="$3"
;;
bsd386) osname=bsd386
osvers=`$uname -r`
;;
cygwin*) osname=cygwin
osvers="$3"
;;
*dc.osx) osname=dcosx
osvers="$3"
;;
dnix) osname=dnix
osvers="$3"
;;
domainos) osname=apollo
osvers="$3"
;;
dgux) osname=dgux
osvers="$3"
;;
dragonfly) osname=dragonfly
osvers="$3"
;;
?X: uname -a returns
?X: DYNIX/ptx xxx 4.0 V4.1.2 i386
dynixptx*) osname=dynixptx
osvers=`echo
"$4"|sed 's/^v//`
;;
freebsd) osname=freebsd
osvers="$3" ;;
genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
?X: into using the SysV case!
gnu) osname=gnu
osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X: Thanks to Graham Barr. --AD 6/30/1998

```

```

hp*) osname=hpx
osvers=`echo "$3" | $sed 's,.*\.[0-9]*\.[0-9]*\),\1,'`
;;
irix*) osname=irix
case "$3" in
4*) osvers=4 ;;
5*) osvers=5 ;;
*) osvers="$3" ;;
esac
;;
linux) osname=linux
case "$3" in
*) osvers="$3" ;;
esac
$test -f /system/lib/libandroid.so && osname=linux-android
;;
MiNT) osname=mint
;;
minix) osname=minix
osvers=`$uname -r`
;;
netbsd*)
osname=netbsd
osvers="$3"
;;
news-os) osvers="$3"
case "$3" in
4*) osname=newsos4 ;;
*) osname=newsos ;;
esac
;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
osvers="$3"
;;
os2) osname=os2
osvers="$4"
;;
POSIX-BC | posix-bc ) osname=posix-bc
osvers="$3"
;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
osvers="$3"
;;
qnx) osname=qnx
osvers="$4"
;;

```

```

solaris) osname=solaris
case "$3" in
5*) osvers=`echo $3 | $sed 's/^5/2/g` ;;
*) osvers="$3" ;;
esac
;;
sunos) osname=sunos
case "$3" in
5*) osname=solaris
osvers=`echo $3 | $sed 's/^5/2/g` ;;
*) osvers="$3" ;;
esac
;;
titanos) osname=titanos
case "$3" in
1*) osvers=1 ;;
2*) osvers=2 ;;
3*) osvers=3 ;;
4*) osvers=4 ;;
*) osvers="$3" ;;
esac
;;
ultrix) osname=ultrix
osvers="$3"
;;
osf1|m1s+) case "$5" in
alpha)
?X: DEC OSF/1 myuname
-a output looks like: osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
osname=dec_osf
?X: sizer knows the minor minor version: the letter
osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' | tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'^
case "$osvers" in
[1-9].[0-9]*) ;;
*) osvers=`echo "$3" | sed 's/^[xvt]//'^ ;;
esac
;;
hp*) osname=hp_osf1 ;;
mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
esac
;;
# UnixWare 7.1.2 is known as Open UNIX 8
openunix(unixware) osname=svr5
osvers="$4"
;;
uts) osname=uts

```

```

osvers="$3"
;;
vos) osvers="$3"
;;
$2) case "$osname" in
*isc*) ;;
*freebsd*) ;;
svr*)
: svr4.x or possibly later
case "svr$3" in
${osname}*)
osname=svr$3
osvers=$4
;;
esac
case "$osname" in
svr4.0)
: Check for ESIX
if test -f /stand/boot ; then
eval `grep '^INITPROG=[a-z/0-9]*$'
/stand/boot`
if test -n "$INITPROG" -a -f "$INITPROG"; then
isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0`
if test -n "$isesix"; then
osname=esix4
fi
fi
fi
;;
esac
;;
*) if test -f /etc/systemid; then
osname=sco
set `echo $3 | $sed 's/\./ /g` $4
if $test -f $src/hints/sco_$1_$2_$3.sh; then
osvers=$1.$2.$3
elif $test -f $src/hints/sco_$1_$2.sh; then
osvers=$1.$2
elif $test -f $src/hints/sco_$1.sh; then
osvers=$1
fi
else
case "$osname" in
") : Still unknown. Probably a generic Sys V.
osname="sysv"
osvers="$3"
;;
esac

```

```

fi
;;
esac
;;
*) case "$osname" in
") : Still unknown. Probably a generic BSD.
osname="$1"
osvers="$3"
;;
esac
;;
esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
if test -f /vmunix -a -f $src/hints/news_os.sh; then
(what /vmunix | UU/tr '[A-Z]'
[a-z]) > UU/kernel.what 2>&1
if $contains news-os UU/kernel.what >/dev/null 2>&1; then
osname=news_os
fi
$rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
elif test -d c:/. -o -n "$is_os2" ; then
set X $myuname
osname=os2
osvers="$5"
fi
fi

case "$targetarch" in
") ;;
*) hostarch=$osname
case "$targetarch" in
nto*|*-nto-*)
# Will load qnx.sh, which should change osname to nto
osname=qnx
osvers="
;;
*linux-android*)
# Catch arm-linux-androideabi, mipsel-linux-android,
# and i686-linux-android
osname=linux-android
osvers="
;;
*linux*)
# Something like arm-linux-gnueabi is really just
# plain linux.
osname=linux

```



```

    osvers="
    ;;
*solaris*|*sunos*)
    osname=solaris
    # XXX perhaps we should just assume
    # osvers to be 2, or maybe take the value
    # from targetarch. Using $run before the
    # hints are run is somewhat icky.
    set X ` $run $uname -a 2>/dev/null `
    shift
    case "$3" in
        5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
        *) osvers="$3" ;;
    esac
    ;;
*)
osname=`echo $targetarch|sed 's,^[^-]*-,`
osvers="
    ;;
    esac
    ;;
    esac

```

: Now look for a hint file osname\_osvers, unless one has been  
: specified already.

```

case "$hintfile" in
"|' )
file=`echo "${osname}_${osvers}" | $sed -e 's%\.\%_g' -e 's%_$$%'`
: Also try without trailing minor version
numbers.
xfile=`echo $file | $sed -e 's%_[^_]*$%%`
xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%`
xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%`
xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%`
case "$file" in
") dflt=none ;;
*) case "$osvers" in
") dflt=$file
    ;;
*) if $stest -f $src/hints/$file.sh ; then
    dflt=$file
elif $stest -f $src/hints/$xfile.sh ; then
    dflt=$xfile
elif $stest -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
elif $stest -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile

```

```

elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
else
    dflt=none
fi
;;
esac
;;
esac
if $test -f Policy.sh ; then
    case "$dflt" in
        *Policy*) ;;
        none) dflt="Policy" ;;
        *) dflt="Policy $dflt" ;;
    esac
fi
;;
*)
dflt=`echo $hintfile | $sed 's/\.\sh$/\^'`
;;
esac

```

```

if $test -f Policy.sh ; then
    $cat <<EOM

```

There's also

a Policy hint file available, which should make the site-specific (policy) questions easier to answer.

EOM

```

fi

```

```

$cat <<EOM

```

You may give one or more space-separated answers, or "none" if appropriate.

If you have a handcrafted Policy.sh file or a Policy.sh file generated by a previous run of Configure, you may specify it as well as or instead of OS-specific hints. If hints are provided for your OS, you should use them: although Perl can probably be built without hints on many platforms, using hints often improve performance and may enable features that Configure can't set up on its own. If there are no hints that match your OS, specify "none"; DO NOT give a wrong version or a wrong OS.

EOM

```

rp="Which of these apply, if any?"

```

```

. UU/myread
tans=$ans
for file in $tans; do
if $test X$file = XPolicy -a -f Policy.sh; then
. Policy.sh
$cat Policy.sh >> UU/config.sh
elif $test -f $src/hints/$file.sh; then
. $src/hints/$file.sh
$cat $src/hints/$file.sh >> UU/config.sh
elif
$test X"$tans" = X -o X"$tans" = Xnone ; then
: nothing
else
: Give one chance to correct a possible typo.
echo "$file.sh does not exist"
dflt=$file
rp="hint to use instead?"
. UU/myread
for file in $ans; do
if $test -f "$src/hints/$file.sh"; then
. $src/hints/$file.sh
$cat $src/hints/$file.sh >> UU/config.sh
elif $test X$ans = X -o X$ans = Xnone ; then
: nothing
else
echo "$file.sh does not exist -- ignored."
fi
done
fi
done

hint=recommended
: Remember our hint file for later.
if $test -f "$src/hints/$file.sh" ; then
hintfile="$file"
else
hintfile=""
fi
fi
cd UU
?X: From here on, we must use $src instead of $src
@else
: Get old answers, if there is a config file out there
hint=default
hintfile=""
if test -f ../config.sh; then
echo " "
rp="I see a config.sh file. Shall I use it to set the defaults?"

```

```

./myread
case "$ans" in
n*|N*) echo "OK, I'll ignore it.>";;
*) echo "Fetching default answers from
your old config.sh file..." >&4
tmp_n="$n"
tmp_c="$c"
../config.sh
cp ./config.sh .
n="$tmp_n"
c="$tmp_c"
hint=previous
;;
esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
echo " "
echo "Fetching default answers from $config_sh..." >&4
tmp_n="$n"
tmp_c="$c"
cd ..
?X: preserve symbolic links, if any
cp $config_sh config.sh 2>/dev/null
chmod +w config.sh
./config.sh
cd UU
cp ../config.sh .
n="$tmp_n"
c="$tmp_c"
hint=previous
;;
esac
./optdef.sh

: Restore computed paths
for file in $loclist $strylist; do
eval $file="\$_$file"
done

@if osname || osvers
cat << EOM

```

Configure uses the operating system name and version to set some defaults. The default value is probably right if the name rings a bell. Otherwise, since spelling matters for me, either accept the default or answer "none"

to leave it blank.

```
EOM
@end
@if osname
case "$osname" in
'|' )
case "$hintfile" in
'|' |none) dflt=none ;;
*) dflt=`echo $hintfile | $sed -e 's/\.sh$//'
-e 's/\.*/$//'^` ;;
esac
;;
*) dflt="$osname" ;;
esac
rp="Operating system name?"
./myread
case "$ans" in
none) osname=" " ;;
*) osname=`echo "$ans" | $sed -e 's/[ ]*/_/g' | ./tr '[A-Z]' '[a-z]'^` ;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
'|' )
case "$hintfile" in
'|' |none) dflt=none ;;
*) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'^
dflt=`echo $dflt | $sed -e 's/^\_/' -e 's/_/./g'^`
case "$dflt" in
'|' ) dflt=none ;;
esac
;;
esac
;;
*) dflt="$osvers" ;;
esac
rp="Operating system version?"
./myread
case "$ans" in
none) osvers=" " ;;
*) osvers="$ans" ;;
esac

@end
```

./posthint.sh

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Oldconfig.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: fpostype.U,v \$

?RCS: Revision 3.0.1.2 1994/08/29 16:20:52 ram

?RCS: patch32: now uses new Typedef unit to compute type information

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 06:59:59 ram

?RCS: patch30: created

?RCS:

?MAKE:fpostype: Myread Typedef

?MAKE: -pick add \$@ %<

?S:fpostype:

?S: This variable defines Fpos\_t to be something like fpost\_t, long,

?S: uint, or whatever type is used to declare file positions in libc.

?S:.

?C:Fpos\_t:

?C: This symbol holds the type used to declare file positions

in libc.

?C: It can be fpos\_t, long, uint, etc... It may be necessary to include

?C: <sys/types.h> to get any typedef'ed information.

?C:.

?H:#define Fpos\_t \$fpostype /\* File position type \*/

?H:.

: see what type file positions are declared as in the library

set fpos\_t fpostype long stdio.h sys/types.h

eval \$typedef

echo " "

dflt="\$fpostype"

rp="What is the type for file position used by fsetpos()?"

./myread

fpostype="\$ans"

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/fpostype.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: i\_neterrno.U,v \$

?RCS: Revision 3.0.1.3 1994/10/29 16:20:29 ram

?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)

?RCS:

?RCS: Revision 3.0.1.2 1994/08/29 16:22:10 ram

?RCS: patch32: removed spurious echo

?RCS:

?RCS: Revision 3.0.1.1 1994/06/20 07:02:05 ram

?RCS: patch30: created by ADO

?RCS:

?MAKE:i\_neterrno: Inhdr +cc +ccflags rm\_try Setvar

?MAKE: -pick add \$@ %<

?S:i\_neterrno:

?S: This variable

conditionally defines the I\_NET\_ERRNO symbol, which

?S: indicates to the C program that <net/errno.h> exists and should

?S: be included.

?S:.

?C:I\_NET\_ERRNO:

?C: This symbol, if defined, indicates that <net/errno.h> exists and

?C: should be included.

?C:.

?H:#\$i\_neterrno I\_NET\_ERRNO /\*\*/

?H:.

?LINT:set i\_neterrno

: see if net/errno.h is available

val="

set net/errno.h val

eval \$inhdr

: Unfortunately, it causes problems on some systems. Arrgh.

```

case "$val" in
$define)
cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
return ENOTSOCK;
}
EOM
if $cc $ccflags -c try.c >/dev/null 2>&1; then
echo "We'll be including <net/errno.h>." >&4
else
echo "We won't be including <net/errno.h>." >&4
val="$undef"
fi
$rm_try
;;
esac
set i_netermo
eval $setvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_netermo.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000, Jarkko Hietaniemi

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?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:Devel usedevel: Myread rsrc package

?MAKE: -pick wipe \$@ %<

?T:xversion

?X: waiver of rights

?S:usedevel:

?S: This variable indicates that Perl was configured with development

?S: features enabled. This should not be done for production builds.

?S:.

?C:PERL\_USE\_DEVEL:

?C: This symbol, if defined, indicates that Perl was configured with



```

?C: -Dusedevel, to enable development features. This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL /**/
?H:.
?LINT:extern versiononly
?LINT:extern
installusrbinperl
?LINT:change versiononly
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[ ]+PERL_VERSION/ {print $3}' $src/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
    usedevel="$define" ;;
*) case "$xversion" in
    *[13579])
        cat >&4 <<EOH
        *** WHOA THERE!!! ***

```

This is an UNSTABLE DEVELOPMENT release.  
 The version of this \$package distribution is \$xversion, that is, odd,  
 (as opposed to even) and that signifies a development release.  
 If you want a maintenance release, you want an even-numbered version.

Do \*\*\*NOT\*\*\* install this into production use.  
 Data corruption and crashes are possible.

It is most seriously suggested that you do not continue any further  
 unless you want to help in developing and debugging Perl.

If you \*still\* want to build perl, you can answer 'y' now,  
 or pass -Dusedevel to Configure.

```

EOH
rp='Do you really want to continue?'
dflt='n'
. ./myread
case
"$ans" in
[yY]) echo >&4 "Okay, continuing."
    usedevel="$define" ;;
*) echo >&4 "Okay, bye."
    exit 1
;;
esac
;;
esac

```

```

    usedevel="$undef"
    ;;
esac
case "$usedevel" in
$define|true|[yY]*)
    case "$versiononly" in
    ") versiononly="$define" ;;
    esac
    case "$installusrbinperl" in
    ") installusrbinperl="$undef" ;;
    esac
    ;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/Devel.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:37 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
    which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should

```

```

?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
?C:.
?H:#$i_systimeb I_SYS_TIMEB /**/
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
val="$define"
echo "You have struct timeb defined in <sys/timeb.h>." >&4
else
val="$undef"
echo "Assuming struct timeb is defined in <sys/time.h>." >&4
fi
else
val="$undef"
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
set i_systimeb
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/i_systimeb.U

```

No license file was found, but licenses were detected in source scan.

```

# You may redistribute only under the terms of the Artistic Licence,
#
# Beyond this point lie functions we may never compile.
#
#
# DO NOT CHANGE A IOTA BEYOND THIS COMMENT!
# The following table lists offsets of functions within the data section.
# Should modifications be needed, change original code and rerun perload
# with the -o option to regenerate a proper offset table.
#

```

|                      |      |
|----------------------|------|
| locate'dump_list     | 2938 |
| locate'private_units | 3071 |
| locate'public_units  | 3858 |
| locate'units_path    | 5351 |

```
main'build_extfun 16719
main'build_filext 16368
main'build_xref 25627
main'complete_line 22216
main'dump_obsolete 23859
main'end_extraction 7714
main'extract_dependencies 19358
main'extract_filenames 15511
main'gensym 29705
main'init 1308
main'init_depend
18208
main'init_except 1534
main'init_extraction 6862
main'locate_units 2321
main'manifake 29793
main'ofound 29321
main'p_c 10283
main'p_config 11589
main'p_magic 13345
main'p_make 8066
main'p_obsolete 9676
main'p_shell 9830
main'p_wanted 14245
main'profile 30974
main'q 17825
main'record_obsolete 22806
main'tilda_expand 30619
main'usage 1832
```

```
#
```

```
# End of offset table and beginning of dataloading section.
```

```
#
```

```
# General initializations
```

```
sub main'load_init {
package main;
&init_except; # Token which have upper-cased letters
&init_depend; # The %Depend array records control line handling
}
```

```
# Record the exceptions -- all symbols but these are lower case
```

```
sub main'load_init_except
{
package main;
$Except{'Author'}++;
$Except{'Date'}++;
$Except{'Header'}++;
```

```

$Except{'Id'}++;
$Except{'Locker'}++;
$Except{'Log'}++;
$Except{'RCSfile'}++;
$Except{'Revision'}++;
$Except{'Source'}++;
$Except{'State'}++;
}

# Print out metaxref's usage and exits
sub main'load_usage {
    package main;
    print STDERR <<EOM;
    Usage: metaxref [-dhkmsV] [-f manifest] [-L dir]
    -d : debug mode.
    -f : use that file as manifest instead of MANIFEST.new.
    -h : print this help message and exits.
    -k : keep temporary directory.
    -m : assume lots of memory and swap space.
    -s : silent mode.
    -L : specify main units repository.
    -V : print version number and exits.
    EOM
    exit 1;
}

# Locate the units and push their path in @ARGV (sorted alphabetically)
sub main'load_locate_units {
    package locate;
    print "Locating units...\n" unless $main'opt_s;
    local(*WD) = *main'WD; # Current working directory
    local(*MC) = *main'MC; # Public metaconfig library
    undef %myUlist; #
    Records private units paths
    undef %myUseen; # Records private/public conflicts
    &private_units; # Locate private units in @myUlist
    &public_units; # Locate public units in @ARGV
    @ARGV = sort @ARGV; # Sort it alphabetically
    push(@ARGV, sort @myUlist); # Append user's units sorted
    &dump_list if $main'opt_v; # Dump the list of units
}

# Dump the list of units on stdout
sub locate'load_dump_list {
    package locate;
    print "\t";
    $, = "\n\t";
    print @ARGV;
}

```

```

$, = ";
print "\n";
}

# Scan private units
sub locate'load_private_units {
package locate;
return unless -d 'U'; # Nothing to be done if no 'U' entry
local(*ARGV) = *myUlist; # Really fill in @myUlist
local($MC) = $WD; # We are really in the working directory
&units_path("U"); # Locate units in the U directory
local($unit_name); # Unit's name (without .U)
local(@kept); # Array of kept units
# Loop over the units and remove duplicates (the first one seen is the one
# we keep). Also set the
%myUseen H table to record private units seen.
foreach (@ARGV) {
($unit_name) = m|^.*(.*).U$; # Get unit's name from path
next if $myUseen{$unit_name}; # Already recorded
$myUseen{$unit_name} = 1; # Record private unit
push(@kept, $_); # Keep this unit
}
@ARGV = @kept;
}

# Scan public units
sub locate'load_public_units {
package locate;
chdir($MC) || die "Can't find directory $MC.\n";
&units_path("U"); # Locate units in public U directory
chdir($WD) || die "Can't go back to directory $WD.\n";
local($path); # Relative path from $WD
local($unit_name); # Unit's name (without .U)
local(*Unit) = *main'Unit; # Unit is a global from main package
local(@kept); # Units kept
local(%warned); # Units which have already issued a message
# Loop over all the units and keep only the ones that were not found in
# the user's U directory. As it is possible two or more units with the same
# name be found in
foreach (@ARGV) {
($unit_name) = m|^.*(.*).U$; #
Get unit's name from path
next if $warned{$unit_name}; # We have already seen this unit
$warned{$unit_name} = 1; # Remember we have warned the user
if ($myUseen{$unit_name}) { # User already has a private unit
$path = $Unit{$unit_name}; # Extract user's unit path
next if $path eq $_; # Same path, we must be in mcon/
$path =~ s|^$WD//|o; # Weed out leading working dir path
}
}
}

```

```

print "  Your private $path overrides the public one.\n"
unless $main'opt_s;
} else {
push(@kept, $_); # We may keep this one
}
}
@ARGV = @kept;
}

# Recursively locate units in the directory. Each file ending with .U has to be
# a unit. Others are stat()'ed, and if they are a directory, they are also
# scanned through. The $MC and @ARGV variable are dynamically set by the caller.
sub locate'load_units_path {
package locate;
local($dir) = @_; # Directory where units are to be found
local(@contents); # Contents of the directory
local($unit_name); # Unit's name,
without final .U
local($path); # Full path of a unit
local(*Unit) = *main'Unit; # Unit is a global from main package
unless (opendir(DIR, $dir)) {
warn("Cannot open directory $dir.\n");
return;
}
print "Locating in $MC/$dir...\n" if $main'opt_v;
@contents = readdir DIR; # Slurp the whole thing
closedir DIR; # And close dir, ready for recursion
foreach (@contents) {
next if $_ eq '.' || $_ eq '..';
if (/\.U$/) { # A unit, definitely
($unit_name) = /^(.*)\.U$/;
$path = "$MC/$dir/$_"; # Full path of unit
push(@ARGV, $path); # Record its path
if (defined $Unit{$unit_name}) { # Already seen this unit
if ($main'opt_v) {
($path) = $Unit{$unit_name} =~ m|^(.*)|.*/;
print "  We've already seen $unit_name.U in $path.\n";
}
} else {
$Unit{$unit_name} = $path; # Map name to path
}
}
next;
}
# We have found a file which does not look like a unit. If it is a
# directory, then scan it. Otherwise skip the file.
unless
(-d "$dir/$_") {
print "  Skipping file $_ in $dir.\n" if $main'opt_v;
}
}
}

```

```

    next;
  }
  &units_path("$dir/$_");
  print "Back to $MC/$dir...\n" if $main'opt_v;
}
}

# Initialize the extraction process by setting some variables.
# We return a string to be eval to do more customized initializations.
sub main'load_init_extraction {
  package main;
  open(INIT, ">$WD/.MT/Init.U") ||
    die "Can't create .MT/Init.U\n";
  open(CONF_H, ">$WD/.MT/Config_h.U") ||
    die "Can't create .MT/Config_h.U\n";
  open(EXTERN, ">$WD/.MT/Extern.U") ||
    die "Can't create .MT/Extern.U\n";
  open(MAGIC_H, ">$WD/.MT/Magic_h.U") ||
    die "Can't create .MT/Magic_h.U\n";

  $c_symbol = ""; # Current symbol seen in ?C: lines
  $s_symbol = ""; # Current symbol seen in ?S: lines
  $m_symbol = ""; # Current symbol seen in ?M: lines
  $heredoc = ""; # Last "here" document symbol seen
  $heredoc_nosubst = 0; # True for <<'EOM' here docs
  $condlist = ""; # List of conditional symbols
  $defined =
"; # List of defined symbols in the unit
  $body = ""; # No procedure to handle body
  $ending = ""; # No procedure to clean-up
}

# End the extraction process
sub main'load_end_extraction {
  package main;
  close EXTERN; # External dependencies (libraries, includes...)
  close CONF_H; # C symbol definition template
  close INIT; # Required initializations
  close MAGIC; # Magic C symbol redefinition templates

  print $dependencies if $opt_v; # Print extracted dependencies
}

# Process the ?MAKE: line
sub main'load_p_make {
  package main;
  local($_) = @_;
  local(@ary); # Locally defined symbols

```



```

local(@dep); # Dependencies
if (/^\[w+ ]*:/) { # Main dependency rule
s|^\s*||; # Remove leading spaces
chop;
s/:(.*)//;
@dep = split(' ', $1); # Dependencies
@ary = split(' '); # Locally defined symbols
foreach $sym (@ary) {
# Symbols starting with a '+' are meant for internal use only.
next if $sym =~ s/^\+//;
# Only symbols starting with
a lowercase letter are to
# appear in config.sh, excepted the ones listed in Except.
if ($sym =~ /^[_a-z]/ || $Except{$sym}) {
$shmaster{"\$$sym"} = undef;
push(@Master, "?$unit:$sym=\n"); # Initializations
}
}
$condlist = "; # List of conditional symbols
local($sym); # Symbol copy, avoid @dep alteration
foreach $dep (@dep) {
if ($dep =~ /^[A-Za-z]/) {
($sym = $dep) =~ s/^\+//;
$condlist .= "$sym ";
push(@Cond, $sym) unless $condseen{$sym};
$condseen{$sym}++; # Conditionally wanted
}
}
# Append to already existing dependencies. The 'defined' variable
# is set for &write_out, used to implement ?L: and ?I: canvas. It is
# reset each time a new unit is parsed.
# NB: leading '+' for defined symbols (internal use only) have been
# removed at this point, but conditional dependencies still bear it.
$defined = join(' ', @ary); # Symbols defined by this unit
$dependencies .= $defined . ':' . join(' ', @dep) . "\n";
$dependencies
.= " -cond $condlist\n" if $condlist;
} else {
$dependencies .= $_; # Building rules
}
}

# Process the ?O: line
sub main'load_p_obsolete {
package main;
local($_) = @_;
$Obsolete{"$unit.U"} .= $_; # Message(s) to print if unit is used
}

```

```

# Process the ?S: lines
sub main'load_p_shell {
  package main;
  local($_) = @_;
  unless ($s_symbol) {
    if (/^(w+).*/) {
      $s_symbol = $1;
      print " ?S: $s_symbol\n" if $opt_d;
    } else {
      warn "\"$file\"", line $.: syntax error in ?S: construct.\n";
      $s_symbol = $unit;
      return;
    }
  }
  # Deal with obsolete symbol list (enclosed between parenthesis)
  &record_obsolete("\$$") if ^(/);
}
m|^\.\s*$| && ($s_symbol = ""); # End of comment
}

# Process the ?C: lines
sub main'load_p_c {
  package main;
  local($_) = @_;
  unless ($c_symbol) {
    if (s/^(w+)\s*~\s*(S+)\s*(.*)/$1 $3:/) {
      # The ~ operator aliases the main C symbol to another symbol which
      # is to be used instead for definition in config.h. That is to say,
      #
      the line '?C:SYM ~ other:' would look for symbol 'other' instead,
      # and the documentation for symbol SYM would only be included in
      # config.h if 'other' were actually wanted.
      $c_symbol = $2; # Alias for definition in config.h
      print " ?C: $1 ~ $c_symbol\n" if $opt_d;
    } elsif (/^(w+).*/) {
      # Default behaviour. Include in config.h if symbol is needed.
      $c_symbol = $1;
      print " ?C: $c_symbol\n" if $opt_d;
    } else {
      warn "\"$file\"", line $.: syntax error in ?C: construct.\n";
      $c_symbol = $unit;
      return;
    }
  }
  # Deal with obsolete symbol list (enclosed between parenthesis) and
  # make sure that list do not appear in config.h.SH by removing it.
  &record_obsolete("$") if ^(/);
  s/\s*(.*)//; # Get rid of obsolete symbol list
}

```

```

s|^(\\w+)\\s*|?${_symbol}:/ * $1| || # Start of comment
(s|^\\.\\s*|?${_symbol}:/ * \\n| && (${_symbol} = ", 1)| || # End of comment
s|^\\.\\s*|?${_symbol}:/ * $1|; # Middle of comment
&p_config("${_symbol}"); # Add comments
to config.h.SH
}

```

# Process the ?H: lines

```

sub main'load_p_config {
package main;
local($_) = @_;
local($constraint); # Constraint to be used for inclusion
++$old_version if s/^(\\%1:)/; # Old version
if (s/^(\\w+):/) { # Remove leading '?var:'
$constraint = $1; # Constraint is leading '?var'
} else {
$constraint = ""; # No constraint
}
if (/^#.*$/ ) { # Look only for cpp lines
if (m/^#(\\w+)\\s+(\\w+).*(\\w+)) {
# Case: #d_var VAR "$var"
$constraint = $2 unless $constraint;
print " ?H: ($constraint) #$$$1 $2 \\\"$$$3\\\"\\n" if $opt_d;
$cmaster{$2} = undef;
$swanted{$2} = "$1\\n$3";
} elsif (m/^#define\\s+(\\w+)((\\.\\s+)|(\\w+)) {
# Case: #define VAR(x) $var
$constraint = $1 unless $constraint;
print " ?H: ($constraint) #define $1($2) \\\"$$$3\\\"\\n" if $opt_d;
$cmaster{$1} = undef;
$swanted{$1} = $3;
} elsif (m/^#(\\w+)\\s+(\\w+)) {
# Case: #define VAR
$constraint = $1 unless $constraint;
print " ?H: ($constraint)
#define $1\\n" if $opt_d;
$cmaster{$1} = undef;
$swanted{$1} = "define\\n$unit";
} elsif (m/^#(\\w+)\\s+(\\w+)) {
# Case: #d_var VAR
$constraint = $2 unless $constraint;
print " ?H: ($constraint) #$$$1 $2\\n" if $opt_d;
$cmaster{$2} = undef;
$swanted{$2} = $1;
} elsif (m/^#define\\s+(\\w+).*(\\w+)) {
# Case: #define VAR "$var"
$constraint = $1 unless $constraint;
print " ?H: ($constraint) #define $1 \\\"$$$2\\\"\\n" if $opt_d;

```

```

$cmaster{$1} = undef;
$swanted{$1} = $2;
} else {
$constraint = $unit unless $constraint;
print " ?H: ($constraint) $_" if $opt_d;
}
} else {
print " ?H: ($constraint) $_" if $opt_d;
}
# If not a single ?H:. line, add the leading constraint
s/^\./ // || s/^\?/$constraint:/;
print CONF_H;
}

# Process the ?M: lines
sub main'load_p_magic {
package main;
local($_) = @_;
unless ($m_symbol) {
if (/^(w+):\s*([\w\s]*)\n$/) {
# A '?M:sym:' line implies a '?W:%<:sym' since we'll need to know
# about the wantedness
of sym later on when building confmagic.h.
# Buf is sym is wanted, then the C symbol dependencies have to
# be triggered. That is done by introducing sym in the mwanted
# array, known by the Wanted file construction process...
$m_symbol = $1;
print " ?M: $m_symbol\n" if $opt_d;
$mwanted{$m_symbol} = $2; # Record C dependencies
&p_wanted("$unit:$m_symbol"); # Build fake ?W: line
} else {
warn "\"$file\"", line $.: syntax error in ?M: construct.\n";
}
return;
}
(s/^\.\s*$/?$m_symbol:\n/ && ($m_symbol = ", 1)) || # End of block
s/^\?/$m_symbol:/;
print MAGIC_H; # Definition goes to confmagic.h
print " ?M: $_" if $opt_d;
}

# Process the ?W: lines
sub main'load_p_wanted {
package main;
# Syntax is ?W:<shell symbols><C symbols>
local($active) = $_[0] =~ /^[^:]*:/; # Symbols to activate
local($look_symbols) = $_[0] =~ /:(.*)/; # When those are used
local(@syms) = split(/ /, $look_symbols); # Keep original spacing info

```

```

$active =~ s/\s+/\n/g; #
One symbol per line

# Concatenate quoted strings, so saying something like 'two words' will
# be introduced as one single symbol "two words".
local(@symbols); # Concatenated symbols to look for
local($concat) = ""; # Concatenation buffer
foreach (@syms) {
  if (s/^\//) {
    $concat = $_;
  } elsif (s/\'//) {
    push(@symbols, $concat . ' ' . $_);
    $concat = "";
  } else {
    push(@symbols, $_) unless $concat;
    $concat .= ' ' . $_ if $concat;
  }
}

local($fake); # Fake unique shell symbol to reparent C symbol

# Now record symbols in master and wanted tables
foreach (@symbols) {
  $master{$_} = undef; # Asks for look-up in C files
  # Make a fake C symbol and associate that with the wanted symbol
  # so that later we know where it comes from
  $fake = &gensym;
  $wanted{$_} = "$fake"; # Attached to this symbol
  push(@Master, "?$unit:$fake="); # Fake initialization
}
}

# Extract filenames from manifest
sub main'load_extract_filenames {
  package
  main;
  &build_filext; # Construct &is_cfile and &is_shfile
  print "Extracting filenames (C and SH files) from $NEWMANI...\n"
  unless $opt_s;
  open(NEWMANI,$NEWMANI) || die "Can't open $NEWMANI.\n";
  local($file);
  while (<NEWMANI>) {
    ($file) = split(' ');
    next if $file eq 'config_h.SH'; # skip config_h.SH
    next if $file eq 'Configure'; # also skip Configure
    next if $file eq 'confmagic.h' && $opt_M;
    push(@SHlist, $file) if &is_shfile($file);
    push(@clist, $file) if &is_cfile($file);
  }
}

```

```

}
}

# Construct two file identifiers based on the file suffix: one for C files,
# and one for SH files (using the $cext and $shext variables) defined in
# the .package file.
# The &is_cfile and &is_shfile routine may then be called to know whether
# a given file is a candidate for holding C or SH symbols.
sub main'load_build_filext {
    package main;
    &build_extfun('is_cfile', $cext, '.c.h.y.l');
    &build_extfun('is_shfile', $shext, '.SH');
}

# Build routine $name to identify extensions
# listed in $exts, ensuring
# that $minimum is at least matched (both to be backward compatible with
# older .package and because it is really the minimum required).
sub main'load_build_extfun {
    package main;
    local($name, $exts, $minimum) = @_ ;
    local(@single); # Single letter dot extensions (may be grouped)
    local(@others); # Other extensions
    local(%seen); # Avoid duplicate extensions
    foreach $ext (split(' ', "$exts $minimum")) {
        next if $seen{$ext}++;
        if ($ext =~ s/^\.(\\w)$/$1/) {
            push(@single, $ext);
        } else {
            # Convert into perl's regexp
            $ext =~ s/\.\./g; # Escape .
            $ext =~ s/?/./g; # ? turns into .
            $ext =~ s/*/*./g; # * turns into .*
            push(@others, $ext);
        }
    }
}

local($fn) = &q(<<EOF); # Function being built
:sub $name {
: local(\$_) = \@_ ;
EOF
local($single); # Single regexp: .c.h grouped into .[ch]
$single = '\[' . join(", @single) . ']' if @single;
$fn .= &q(<<EOL) if @single;
: return 1 if /$single$/;
EOL
foreach $ext (@others)
{
    $fn .= &q(<<EOL);

```

```

: return 1 if /$ext$/;
EOL
}
$fn .= &q(<<EOF);
: 0; # None of the extensions may be applied to file name
:}
EOF
print $fn if $opt_d;
eval $fn;
chop($@) && die "Can't compile '$name':\n$fn\n$@.\n";
}

# Remove ':' quotations in front of the lines
sub main'load_q {
package main;
local($_) = @_;
local($*) = 1;
s/^\://g;
$_;
}

# The %Depend array records the functions we use to process the configuration
# lines in the unit, with a special meaning. It is important that all the
# known control symbols be listed below, so that metalint does not complain.
# The %Lcmp array contains valid layouts and their comparison value.
sub main'load_init_depend {
package main;
%Depend = (
'MAKE', 'p_make', # The ?MAKE: line records dependencies
'INIT', 'p_init', # Initializations printed verbatim
'LINT', 'p_lint', # Hints for metalint
'RCS', 'p_ignore', # RCS comments are ignored
'C', 'p_c', # C symbols
'D', 'p_default', # Default value
for conditional symbols
'E', 'p_example', # Example of usage
'F', 'p_file', # Produced files
'H', 'p_config', # Process the config.h lines
'I', 'p_include', # Added includes
'L', 'p_library', # Added libraries
'M', 'p_magic', # Process the confmagic.h lines
'O', 'p_obsolete', # Unit obsolescence
'P', 'p_public', # Location of PD implementation file
'S', 'p_shell', # Shell variables
'T', 'p_temp', # Shell temporaries used
'V', 'p_visible', # Visible symbols like 'rp', 'dflt'
'W', 'p_wanted', # Wanted value for interpreter
'X', 'p_ignore', # User comment is ignored

```

```

'Y', 'p_layout', # User-defined layout preference
);
%Lcmp = (
'top', -1,
'default', 0,
'bottom', 1,
);
}

# Extract dependencies from units held in @ARGV
sub main'load_extract_dependencies {
package main;
local($proc); # Procedure used to handle a ctrl line
local($file); # Current file scanned
local($dir, $unit); # Directory
and unit's name
local($old_version) = 0; # True when old-version unit detected
local($mc) = "$MC/U"; # Public metaconfig directory
local($line); # Last processed line for metalint

printf "Extracting dependency lists from %d units...\n", $#ARGV+1
unless $opt_s;

chdir $WD; # Back to working directory
&init_extraction; # Initialize extraction files
$dependencies = ' ' x (50 * @ARGV); # Pre-extend
$dependencies = ";

# We do not want to use the <> construct here, because we need the
# name of the opened files (to get the unit's name) and we want to
# reset the line number for each files, and do some pre-processing.

file: while ($file = shift(@ARGV)) {
close FILE; # Reset line number
$old_version = 0; # True if unit is an old version
if (open(FILE, $file)) {
($dir, $unit) = ("", $file)
unless ($dir, $unit) = ($file =~ m|(.*)/(.*)|);
$unit =~ s|\.U$||; # Remove extension
} else {
warn("Can't open $file.\n");
}
# If
unit is in the standard public directory, keep only the unit name
$file = "$unit.U" if $dir eq $mc;
print "$dir/$unit.U:\n" if $opt_d;
line: while (<FILE>) {
$line = $_; # Save last processed unit line

```



```

if (s/^\?([\w\~]+:\/) { # We may have found a control line
$proc = $Depend{$1}; # Look for a procedure to handle it
unless ($proc) { # Unknown control line
$proc = $1; # p_unknown expects symbol in '$proc'
eval '&p_unknown'; # Signal error (metalint only)
next line; # And go on next line
}
# Long lines may be escaped with a final backslash
$_ = &complete_line(FILE) if s/\\s*$//;
# Run macros substitutions
s/%</$unit/g; # %< expands into the unit's name
if (s/%*\/$unit/) {
# %* expanded into the entire set of defined symbols
# in the old version. Now it is only the unit's name.
++$old_version;
}
eval { &$proc($_) }; # Process the line
} else {
next file unless $body; # No procedure to
handle body
do {
$line = $_; # Save last processed unit line
eval { &$body($_) }; # From now on, it's the unit body
} while (defined ($_ = <FILE>));
next file;
}
}
} continue {
warn(" Warning: $file is a pre-3.0 version.\n") if $old_version;
&Sending($line) if $Sending; # Post-processing for metalint
}

&end_extraction; # End the extraction process
}

# The first line was escaped with a final \ character. Every following line
# is to be appended to it (until we found a real \n not escaped). Note that
# the leading spaces of the continuation line are removed, so any space should
# be added before the former \ if needed.
sub main'load_complete_line {
package main;
local($file) = @_; # File where lines come from
local($_);
local($read) = ""; # Concatenation of all the continuation lines found
while (<$file>) {
s/^\s+//; # Remove leading spaces
if (s/\\s*$//) { # Still followed by a continuation line
$read .= $_;

```

```

} else { #
We've reached the end of the continuation
return $read . $_;
}
}
}

# Record obsolete symbols association (new versus old), that is to say for a
# given old symbol, $Obsolete{'old'} = new symbol to be used. A '$' is prepended
# for all shell variables
sub main'load_record_obsolete {
package main;
local($_) = @_;
local(@obsoleted); # List of obsolete symbols
local($symbol); # New symbol which must be used
local($dollar) = s/^\$// ? '$: '; # The '$' or a null string
# Syntax for obsolete symbols specification is
# list of symbols (obsolete ones):
if (/^\(w+\)s*\(((.*)\)\s*$/) {
$symbol = "$dollar$1";
@obsoleted = split(' ', $2); # List of obsolete symbols
} else {
if (/^\(w+\)s*\((.*)$/ {
warn "\"$file\"", line $.: final ')' before ':' missing.\n";
$symbol = "$dollar$1";
@obsoleted = split(' ', $2);
} else {
warn "\"$file\"", line $.: syntax error.\n";
return;
}
}
foreach $val (@obsoleted) {
$_ = $dollar . $val;
if (defined $Obsolete{$_})
{
warn "\"$file\"", line $.: '$_' already obsoleted by '$Obsolete{$_}':.\n";
} else {
$Obsolete{$_} = $symbol; # Record (old, new) tuple
}
}
}

# Dump obsolete symbols used in file 'Obsolete'. Also write Obsol_h.U and
# Obsol_sh.U to record old versus new mappings if the -o option was used.
sub main'load_dump_obsolete {
package main;
unless (-f 'Obsolete') {
open(OBSOLETE, ">Obsolete") || die "Can't create Obsolete.\n";

```



```

print "Building cross-reference files...\n" unless $opt_s;
unless (-f $NEWMANI) {
  &manifake;
  die "No $NEWMANI--don't know who to scan.\n" unless -f $NEWMANI;
}

open(FUI, "|sort | uniq >I.fui") || die "Can't create I.fui.\n";
open(UIF, "|sort | uniq >I.uif") || die "Can't create I.uif.\n";

local($search);    # Where to-be-evald script is held
local($_) = ' ' x 50000 if $opt_m; # Pre-extend pattern search space
local(%visited);  # Records visited files
local(%lastfound); # Where last occurrence of key was

# Map shell symbol names to units by reverse engineering the @Master array
# which records all the known shell symbols and the units where they
# are defined.
foreach $init (@Master) {
  $init =~ /\^?(.*):(.*)=/' && ($shwanted{"\$2"} = $1);
}

# Now we are a little clever, and build a loop to eval so that we don't
# have to recompile
our patterns on every file. We also use "study" since
# we are searching the same string for many different things. Hauls!

if (@clist) {
  print " Scanning .[chyl] files for symbols...\n" unless $opt_s;
  $search = ' ' x (40 * (@cmaster + @ocmaster)); # Pre-extend
  $search = "while (<>) {study;\n"; # Init loop over ARGV
  foreach $key (keys(cmaster)) {
    $search .= "\$cmaster{'$key'} .= \"\$ARGV#\" if /\b$key\b/;\n";
  }
  foreach $key (grep(!/\$/, keys %Obsolete)) {
    $search .= "&ofound('$key') if /\b$key\b/;\n";
  }
  $search .= "}\n"; # terminate loop
  print $search if $opt_d;
  @ARGV = @clist;
  # Swallow each file as a whole, if memory is available
  undef $/ if $opt_m;
  eval $search;
  eval ";";
  $/ = "\n";
  while (($key,$value) = each(cmaster)) {
    next if $value eq "";
    foreach $file (sort(split(/#/ , $value))) {
      next if $file eq "";

```

```

# %wanted may contain value separated by \n -- take last one
@sym = split(/\n/, $wanted{$key});
$sym
= pop(@sym);
$shell = "\$$sym";
print FUI
pack("A35", $file),
pack("A20", "$shwanted{$shell}.U"),
$key, "\n";
print UIF
pack("A20", "$shwanted{$shell}.U"),
pack("A25", $key),
$file, "\n";
}
}
}

undef @clist;
undef %wanted;
undef %cmaster; # We're not building Configure, we may delete this
%visited = ();
%lastfound = ();

if (@SHlist) {
print " Scanning .SH files for symbols...\n" unless $opt_s;
$search = ' ' x (40 * (@shmaster + @oshmaster)); # Pre-extend
$search = "while (<>) {study;\n";
# All the keys already have a leading '$'
foreach $key (keys(shmaster)) {
$search .= "\$shmaster{'$key'} .= \"\$ARGV#\" if /\$key\b/;\n";
}
foreach $key (grep (/^\$/ , keys %Obsolete)) {
$search .= "&ofound('$key') if /\$key\b/;\n";
}
$search .= "}\n";
print $search if $opt_d;
@ARGV = @SHlist;
# Swallow each file as a whole, if memory is available
undef $/ if $opt_m;
eval $search;
eval ";
$/ =
"\n";
while (($key,$value) = each(shmaster)) {
next if $value eq ";
foreach $file (sort(split(/#/ , $value))) {
next if $file eq ";
print FUI

```

```

    pack("A35", $file),
    pack("A20", "$shwanted{$key}.U"),
    $key, "\n";
print UIF
    pack("A20", "$shwanted{$key}.U"),
    pack("A25", $key),
    $file, "\n";
}
}
}

close FUI;
close UIF;

# If obsolete symbols were found, write an Obsolete file which lists where
# each of them appear and the new symbol to be used. Also write Obsol_h.U
# and Obsol_sh.U in .MT for later perusal.

&dump_obsolete;    # Dump obsolete symbols if any

# Clean-up memory by freeing useless data structures
undef @SHlist;
undef %shmaster;
}

# This routine records matches of obsolete keys (C or shell)
sub main'load_ofound {
    package main;
    local($key) = @_ ;
    local($_) = $Obsolete{$key}; # Value of new symbol
    $ofound{"$ARGV $key $_"}++; # Record obsolete match
    $cmaster{$_} .= "$ARGV#" unless /^$/; # A C hit
    $shmaster{$_}
    .= "$ARGV#" if /^$/; # Or a shell one
}

# Create a new symbol name each time it is invoked. That name is suitable for
# usage as a perl variable name.
sub main'load_gensym {
    package main;
    $Gensym = 'AAAAA' unless $Gensym;
    $Gensym++;
}

sub main'load_manifake {
    package main;
    # make MANIFEST and MANIFEST.new say the same thing
    if (! -f $NEWMANI) {

```

```

if (-f $MANI) {
    open(IN,$MANI) || die "Can't open $MANI";
    open(OUT,">$NEWMANI") || die "Can't create $NEWMANI";
    while (<IN>) {
        if (/---/) {
            # Everything until now was a header...
            close OUT;
            open(OUT,">$NEWMANI") ||
                die "Can't recreate $NEWMANI";
            next;
        }
        s/^\s*(\S+\s+)[0-9]*\s*(.*)/$1$2/;
    }
    print OUT;
    print OUT "\n" unless /\n$/; # If no description
    }
    close IN;
close OUT;
}
else {
die "You need to make a $NEWMANI file, with names and descriptions.\n";
}
}
}

#
Perform ~name expansion ala ksh...
# (banish csh from your vocabulary ;- )
sub main'load_tilda_expand {
    package main;
    local($path) = @_;
    return $path unless $path =~ /^~/;
    $path =~ s:^(~/+):(getpwnam($1))[$+7]:e; # ~name
    $path =~ s:^(~/+)$ENV{'HOME'} || (getpwuid($<))[$+7]:e; # ~
    $path;
}

# Set up profile components into %Profile, add any profile-supplied options
# into @ARGV and return the command invocation name.
sub main'load_profile {
    package main;
    local($profile) = &tilda_expand($ENV{'DIST'} || '~/dist_profile');
    local($me) = $0; # Command name
    $me =~ s|.*|(.*)$1|; # Keep only base name
    return $me unless -s $profile;
    local(*PROFILE); # Local file descriptor
    local($options) = ""; # Options we get back from profile
    unless (open(PROFILE, $profile)) {
        warn "$me: cannot open $profile: $!\n";
    }
}

```

```

return;
}
local($_);
local($component);
while (<PROFILE>) {
  next if /\s*#/; # Skip comments
  next unless /^$me/o;
  if (s/^$me://o) { # progame: options
    chop;
    $options
  .= $_; # Merge options if more than one line
  }
  elsif (s/^$me-([^\:]+)//o) { # progame-component: value
    $component = $1;
    chop;
    s/^\s+//; # Trim leading and trailing spaces
    s/\s+$//;
    $Profile{$component} = $_;
  }
}
close PROFILE;
return unless $options;
require 'shellwords.pl';
local(@opts);
eval '@opts = &shellwords($options)'; # Protect against mismatched quotes
unshift(@ARGV, @opts);
return $me; # Return our invocation name
}

```

```

#
# End of dataloading section.
#

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/bin/metaxref

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```



?RCS: \$Log: libc.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS: patch61: added support for HPUX-10 nm output

?RCS:

?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram

?RCS: patch54: made sure only most recent version of shared lib is picked

?RCS: patch54: final "nm -p" check now uses xscan and xrun  
like everybody

?RCS: patch54: can now grok Linux nm output with lead \_\_IO (ADO)

?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)

?RCS:

?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram

?RCS: patch36: now looks for shared libraries before anything else (ADO)

?RCS: patch36: added new nm output format (ADO)

?RCS:

?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram

?RCS: patch32: added I-type symbols for nm output parsing on Linux

?RCS:

?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram

?RCS: patch30: checks are now presented by succession of if/elif

?RCS: patch30: uniformized checks for shared objects with new so symbol

?RCS:

?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram

?RCS: patch23: added shared library knowledge (ADO and WED)

?RCS:

?RCS: Revision 3.0.1.3 1994/01/24 14:12:17 ram

?RCS: patch16: can now export nm\_extract as an internal-use only variable

?RCS:

?RCS: Revision 3.0.1.2 1993/09/13 16:09:03 ram

?RCS: patch10: added special handling for Apollo  
systems (WAD)

?RCS:

?RCS: Revision 3.0.1.1 1993/08/27 14:40:03 ram

?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:57 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libc +nm\_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \  
sed libs incpath libpth ar runnm nm nm\_opt nm\_so\_opt contains xlibpth \  
so \_a \_o osname trnl tr sort uniq sysroot

?MAKE: -pick add \$@ %<

?S:libc:

?S: This variable contains the location of the C library.

```

?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=""
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
  get list of predefined functions in a handy place
  echo " "
  case "$libc" in
  ") libc=unknown
  case "$libs" in
  *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
  esac
  ;;
  esac
  case "$libs" in
  ") ;;
  *) for thislib in $libs; do
  case "$thislib" in
  -lc|-lc_s)
  : Handle C library specially below.
  ;;
  -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//`
  if try=`./loc lib$thislib.$so.*' X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc $lib$thislib$_a X $libpth`; $test -f "$try"; then

```

```

:
else
  try="
fi
libnames="$libnames $try"
;;
*) libnames="$libnames $thislib" ;;
esac
done
;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
"environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
set /lib/libc.$so
for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
: The messy sed command sorts on library version numbers.
$test -r $1 || \
set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
tr ' ' $trnl | egrep -v \.[A-Za-z]*$' | $sed -e '
h
s/[0-9][0-9]*/0000&/g
s/0*\([0-9][0-9][0-9][0-9][0-9]\)\^1/g
G
s^\n/ /' | \
$sort | $sed -e 's/^\.* //'^

```

```

eval set \$$#
done
$test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
$test -r $1 || set $sysroot/lib/libsys_s$_a
;;
*)
?X: ensure the test below for the (shared) C library will fail
set blurfl
;;
esac
if $test -r "$1"; then
echo "Your (shared) C library seems to be in $1."
libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
echo "Your C library seems to be in both /lib/clib
and /lib/libc."
xxx=apollo
libc='/lib/clib /lib/libc'
if $test -r /lib/syslib; then
echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
libc="$libc /lib/syslib"
fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
libc=$incpath/usr/lib/libc$_a;
echo "Your C library seems to be in $libc. That's fine."
elif $test -r /lib/libc$_a; then
libc=/lib/libc$_a;
echo "Your C library seems to be in $libc. You're normal."
else
if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$stans"; then
:
elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$stans"; then
libnames="$libnames "`./loc clib blurfl/dyick $libpth`
elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$stans"; then
:
elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$stans"; then
:
elif tans=`./loc
Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$stans"; then
:

```

```

else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
fi
if $test -r "$stans"; then
  echo "Your C library seems to be in $stans, of all places."
  libc=$stans
else
  libc='blurfl'
fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
  dflt="$libc"
cat <<EOM

```

If the guess above is wrong (which it might be if you're using a strange compiler, or your machine supports multiple models), you can override it here.

```

EOM
else
  dflt=""
echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
cat >&4 <<EOM

```

I can't seem to find your C library. I've looked in the following places:

```

EOM
$sed 's/^/ /' libpath
cat <<EOM

```

None of these seems to contain your C library. I need to get its name...

```

EOM
fi
fn=f
rp='Where is your C library?'
./getfile
libc="$sans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
"Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "

```

`$echo $n "This may take a while...$c" >&4`

?X:

?X: Linux may need the special Dynamic option to nm for shared libraries.

?X: In general, this is stored in the nm\_so\_opt variable.

?X: Unfortunately, that option may be fatal on non-shared libraries.

?X:

```
for file in $*; do
case $file in
*$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
*) $nm $nm_opt $file 2>/dev/null;;
esac
done >libc.tmp
```

`$echo $n ".$c"`

?X:

?X: To accelerate processing, we look at the correct 'sed' command

?X: by using a small subset of libc.tmp, i.e. fprintf function.

?X: When we know which sed command to use, do the name extraction

?X:

```
$grep fprintf libc.tmp > libc.ptf
```

?X:

?X: In order to enhance readability and save some space, we define

?X: some variables that will be "eval"ed.

?X:

```
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
```

```
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
```

?X:

BSD-like output, I and W types added for Linux

?X: Some versions of Linux include a leading \_\_IO in the symbol name.

?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has

?X: BSD-like output. (AD).

?X: GNU extension: i is "indirect function"

```
xxx=[ADTSIW]
```

```
if com="$sed -n -e 's/__IO//' -e 's/^. *$xxx */p';\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

?X: SYSV-like output

```
elif com="$sed -n -e 's/___*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*\1/p';\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

```
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^. *|___*//p';\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

```
elif com="$sed -n -e 's/^. *D ___*//p' -e 's/^. *D //p';\
```

```

eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_/' -e 's/^([a-zA-Z_0-9]*).*xtern.*text.*\1/p''";\
eval $xscan;\
$contains '^fprintf$'
libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
  -e '/file/d' -e 's/^([ ]*).*\1/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|/p' -e 's/^.*|FUNC |WEAK .*|/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^_/' -e '/|Undef/d' -e '/|Proc/s/ .*|/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| */p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([ ]*\)\$/\1/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\([.]*\)=. *\1/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\text n\ \ \ \./p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*|/' -e 's/[ ]*D[ ]*[0-9]*.*|/p''";\
eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then

```

```

eval $xrun
else
$nm -p $* 2>/dev/null >libc.tmp
$grep fprintf libc.tmp > libc.ptf
if com="$sed -n -e 's/^. * [ADTSIW] *[_.]*/p' -e 's/^. * [ADTSIW] //p';\
eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
then
nm_opt='-p'
eval $xrun
else
echo " "
echo "$nm didn't seem to work right. Trying $ar instead..." >&4
com="
if $ar t $libc > libc.tmp && \
$contains '^fprintf$' libc.tmp >/dev/null 2>&1
then
for thisname in $libnames $libc; do
$ar t $thisname >>libc.tmp
done
$sed -e "s/\$_o\$//" < libc.tmp > libc.list
echo
"Ok." >&4
elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
for thisname in $libnames $libc; do
$ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries. Use emximp which will extract exactly them.
emximp -o tmp.imp $thisname \
2>/dev/null && \
$sed -e 's/^([_a-zA-Z0-9]*) .*$/1/p' \
< tmp.imp >>libc.tmp
$rm -f tmp.imp
done
$sed -e "s/\$_o\$/" -e 's/^ |+/ ' < libc.tmp > libc.list
echo "Ok." >&4
else
echo "$ar didn't seem to work right." >&4
echo "Maybe this is a Cray...trying bld instead..." >&4
if bld t $libc | \
$sed -e 's/.*/' -e "s/\$_o:.*\$/" > libc.list &&
$test -s libc.list
then
for thisname in $libnames; do
bld t $libnames | \
$sed -e 's/.*/' -e "s/\$_o:.*\$/" >>libc.list
$ar t $thisname >>libc.tmp
done

```



```

    echo "Ok." >&4
else
    echo
    "That didn't work either. Giving up." >&4
    exit 1
fi
fi
fi
fi
nm_extract="$com"
case "$PASE" in
define)
    echo " "
    echo "Since you are compiling for PASE, extracting more symbols from libc.a ..." >&4
    dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
    ;;
*) if $test -f /lib/syscalls.exp; then
    echo " "
    echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
    $sed -n 's/^\([^ ]*\)[ ]*syscall[0-9]*[ ]*$/\1/p' \
    /lib/syscalls.exp >>libc.list
    fi
    ;;
esac
;;
esac
$rm -f libnames libpath

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/libc.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_fd\_set.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:33:16 ram

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.2 1994/06/20 06:57:23 ram

?RCS: patch30: extended scope for fd\_set checks (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/01/24 14:06:27 ram

?RCS: patch16: comments for HAS\_FD\_\* symbols were not consistent

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:02 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_fd\_set d\_fd\_macros d\_fds\_bits: cat +cc +ccflags rm Oldconfig  
 \  
 d\_socket i\_systime i\_sysselect i\_syssock

?MAKE: -pick add \$@ %<

?S:d\_fd\_set:

?S: This variable contains the eventual value of the HAS\_FD\_SET symbol,  
 ?S: which indicates if your C compiler knows about the fd\_set typedef.

?S:.

?S:d\_fd\_macros:

?S: This variable contains the eventual value of the HAS\_FD\_MACROS symbol,  
 ?S: which indicates if your C compiler knows about the macros which  
 ?S: manipulate an fd\_set.

?S:.

?S:d\_fds\_bits:

?S: This variable contains the eventual value of the HAS\_FDS\_BITS symbol,  
 ?S: which indicates if your fd\_set typedef contains the fds\_bits member.  
 ?S: If you have an fd\_set typedef, but the dweebs who installed it did  
 ?S: a half-fast job and neglected to provide the macros to manipulate  
 ?S: an fd\_set, HAS\_FDS\_BITS will let us know how to fix the gaffe.

?S:.

?C:HAS\_FD\_SET:

?C: This symbol, when defined, indicates presence of the fd\_set typedef  
 ?C: in <sys/types.h>

?C:.

?C:HAS\_FD\_MACROS:

?C: This symbol, when defined, indicates presence of the macros used  
 to  
 ?C: manipulate an fd\_set.

?C:.

?C:HAS\_FDS\_BITS:

?C: This symbol, when defined, indicates presence of the fds\_bits member in  
 ?C: fd\_set. This knowledge is useful if fd\_set is available but the macros  
 ?C: aren't.

?C:.

?H:#\$d\_fd\_set HAS\_FD\_SET /\*\*/  
 ?H:#\$d\_fd\_macros HAS\_FD\_MACROS /\*\*/  
 ?H:#\$d\_fds\_bits HAS\_FDS\_BITS /\*\*/  
 ?H:.

?F:!fd\_set  
 : check for fd\_set items

\$cat <<EOM

Checking to see how well your C compiler handles fd\_set and friends ...

EOM

?X: The FD\_SET macros can be in strange places. On some SysV-based

?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)

?X: by <sys/socket.h>. We won't force people to include

?X: <sys/bsdtypes.h> because it might introduce other

?X: incompatibilities.

\$cat >fd\_set.c <<EOCP

```
#$i_systime I_SYS_TIME
```

```
#$i_sysselect I_SYS_SELECT
```

```
#$d_socket HAS_SOCKET
```

```
#$i_syssock I_SYS_SOCKET
```

```
#include <sys/types.h>
```

```
#ifdef HAS_SOCKET
```

```
#ifdef I_SYS_SOCKET
```

```
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
```

```
#endif
```

```
#endif
```

```
#ifdef I_SYS_TIME
```

```
#include
```

```
<sys/time.h>
```

```
#endif
```

```
#ifdef I_SYS_SELECT
```

```
#include <sys/select.h>
```

```
#endif
```

```
int main() {
```

```
    fd_set fds;
```

```
#ifdef TRYBITS
```

```
    if(fds.fds_bits);
```

```
#endif
```

```
#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
```

```
    exit(0);
```

```
#else
```

```
    exit(1);
```

```
#endif
```

```
}
```

EOCP

```
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
```

```
    d_fds_bits="$define"
```

```
    d_fd_set="$define"
```

```
    echo "Well, your system knows about the normal fd_set typedef..." >&4
```

```
    if ./fd_set; then
```

```
        echo "and you have the normal fd_set macros (just as I'd expect)." >&4
```

```
        d_fd_macros="$define"
```

```

else
$cat >&4 <<'EOM'
but not the normal fd_set macros! Gaaack! I'll have to cover for you.
EOM
d_fd_macros="$undef"
fi
else
$cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set. Checking further...
EOM
if $cc $cflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
d_fds_bits="$undef"
d_fd_set="$define"
echo "Well, your system has some sort of fd_set available..." >&4
if ./fd_set; then
echo "and you have the
normal fd_set macros." >&4
d_fd_macros="$define"
else
$cat <<'EOM'
but not the normal fd_set macros! Gross! More work for me...
EOM
d_fd_macros="$undef"
fi
else
echo "Well, you got zip. That's OK, I can roll my own fd_set stuff." >&4
d_fd_set="$undef"
d_fds_bits="$undef"
d_fd_macros="$undef"
fi
fi
$rm -f fd_set*

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_fd_set.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Head.U,v \$  
?RCS: Revision 3.0.1.9 1997/02/28 15:02:09 ram  
?RCS: patch61: make sure we unset CDPATH for shells that support this  
?RCS: patch61: improved Korn shell detection and handling  
?RCS:  
?RCS: Revision 3.0.1.8 1995/07/25 13:40:02 ram  
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)  
?RCS: patch56: OS/2 platforms are using another path separator  
?RCS:  
?RCS: Revision 3.0.1.7 1995/03/21 08:46:15 ram  
?RCS: patch52: definition of paths wrongly added spurious ':' chars  
?RCS:  
?RCS:  
Revision 3.0.1.6 1994/10/29 15:54:19 ram  
?RCS: patch36: make sure ENV is unset before calling /bin/ksh  
?RCS:  
?RCS: Revision 3.0.1.5 1994/08/29 16:03:44 ram  
?RCS: patch32: now sets PATH only using existing directories  
?RCS:  
?RCS: Revision 3.0.1.4 1994/06/20 06:54:28 ram  
?RCS: patch30: now computes its invocation name into 'me'  
?RCS: patch30: symbol me is made visible to all units read-only  
?RCS:  
?RCS: Revision 3.0.1.3 1993/12/15 08:15:07 ram  
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386  
?RCS:  
?RCS: Revision 3.0.1.2 1993/11/10 17:32:35 ram  
?RCS: patch14: ensure PATH is reset to '.' before testing for alias  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/27 14:38:07 ram  
?RCS: patch7: not all 'test' programs support the -x option  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:58 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This is the very first unit in the Configure script. It is mostly just  
?X: things to keep people from getting  
into a tizzy right off the bat.  
?X:  
?MAKE:Head:  
?MAKE: -pick wipe \$@ %<  
?V:PATH p\_ \_exe me newsh  
?T:argv Id p paths OS2\_SHELL DJGPP  
?T:inksh needksh avoidksh newsh changesh reason  
?F:!\*  
?LINT:extern ENV CDPATH SHELL MACHTYPE  
?LINT:change ENV CDPATH

```
?LINT:nocomment
#!/bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#   svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!

SCO csh still thinks true is false. Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place. Hmm. Hmmmmm. All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End
```

of diatribe. We now return you to your regularly scheduled programming...]

EOF

```
cat >c2$$ <<EOF
```

OOPS! You naughty creature! You didn't run Configure with sh!

I will attempt to remedy the situation by running sh for you...

EOF

```
true || cat c1$$ c2$$
```

```
true || exec sh $0 $argv:q
```

```
(exit $?0) || cat c2$$
```

```
(exit $?0) || exec sh $0 $argv:q
```

```
rm -f c1$$ c2$$
```

```
: compute my invocation name
```

```
me=$0
```

```
case "$0" in
```

```
*/*)
```

```
me=`echo $0 | sed -e 's!.*^\(.*\)!\1!' 2>/dev/null`
```

```
test "$me" || me=$0
```

```
::
```

```
esac
```

?X:

?X: To be able to run under OS/2, we must detect that early enough to use

?X: the proper path separator, stored in \$p\_. It is : on UNIX and ; on

?X: DOSish systems such as OS/2.

?X:

: Proper separator for the PATH environment variable

```
p_=:
```

: On OS/2 this directory should exist if this is not floppy only system ":-]"

```
if test -d c:/ ; then
```

```
if test -n "$OS2_SHELL"; then
```

```
p_=\;
```

```
PATH=`cmd /c "echo %PATH%" | tr "\\\\" /`
```

?X: That's a bug in ksh5.22

```
OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
```

```
\\\\ / | tr '[A-Z]' '[a-z]`
```

```
elif test -n "$DJGPP"; then
```

```
case "X${MACHTYPE:-nonesuchmach}" in
```

```
*cygwin) ;;
```

```
*) p_=\;
```

```
esac
```

```
fi
```

```
fi
```

?X:

?X: There are two schools of thoughts here. Some people correctly argue that  
?X: the user has a better chance than we do of setting a reasonable PATH and  
?X: others argue that Configure is the best place there is to set up a suitable  
?X: PATH. Well, here we try to compromise by keeping the user's PATH and  
?X: appending some directories which are known to work on some machine or the  
?X: other. The rationale behind this being that a novice user might not have a  
?X: proper environment variable set, and some directories like /etc (where  
?X: chown is located on some BSD systems) may be missing--RAM.

?X:

?X: SVR4 adds an /opt directory for optional packages. Some sites use  
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO

?X:

?X: We only add directories that are not already in the PATH of the

?X: user and the directories must

exist also.

?X:

: Proper PATH setting

```
paths=/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
```

```
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
```

```
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
```

```
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
```

```
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
```

```
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
```

```
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
```

```
paths="$paths /sbin /usr/sbin /usr/libexec"
```

```
paths="$paths /system/gnu_library/bin"
```

```
for p in $paths
```

```
do
```

```
case "$p_${PATH}$p_" in
```

```
*$p_${p}$p_*) ;;
```

```
*) test -d $p && PATH=${PATH}$p_${p} ;;
```

```
esac
```

```
done
```

```
PATH=.$p_${PATH}
```

```
export PATH
```

: shall we be using ksh?

```
inksh=""
```

```
needksh=""
```

```
avoidksh=""
```

```
newsh=/bin/ksh
```

```
changesh=""
```

?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias

?X: builtin but not the -x option which is typically ksh...

?X: We need to set up PATH before calling the "alias" built-in since



```

some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
    inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
    needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
    if test X`/usr/bin/uname -v` = X4; then
        avoidksh="to avoid AIX 4's /bin/sh"
        newsh=/usr/bin/bsh
    fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
    if test X`/usr/bin/uname -s` = XOSF1; then
        avoidksh="to avoid Digital UNIX' ksh"
        newsh=/bin/sh
    fi
fi
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
unset BIN_SH
fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
use "unset ENV", that is not portable enough
ENV=""
changesh=true
reason="$needksh"
;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
changesh=true
reason="$avoidksh"
;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
cat <<EOM

```

(I see you are using the Korn shell. Some ksh's blow up on \$me,  
mainly on older exotic systems. If yours does, try the Bourne shell instead.)

EOM

```
;;
esac
case "$changelog" in
true)
export newsh
echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
case
"$0" in
Configure|*/Configure) exec $newsh $0 "$@";;
*) exec $newsh Configure "$@";;
esac
;;
esac
```

```
?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to "" because then bash 2.02 won't do "cd UU" --AD 6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
") ;;
*) case "$SHELL" in
*bash*) CDPATH='.' ;;
*) CDPATH="" ;;
esac
;;
esac
```

: Configure runs within the UU subdirectory

```
test -d UU || mkdir UU
```

?X: Use ./\* to avoid any confirmation prompts from enhanced shells -- WED

```
cd UU && rm -f ./*
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Head.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Myread.U,v \$  
?RCS: Revision 3.0.1.6 1997/02/28 15:05:39 ram  
?RCS: patch61: myread script now starts with a "startsh"  
?RCS: patch61: miscellaneous fixes  
?RCS:  
?RCS: Revision 3.0.1.5 1995/01/11 15:14:22 ram  
?RCS: patch45: added & escape allowing user to turn on -d from the prompt  
?RCS:  
?RCS: Revision 3.0.1.4 1994/10/31 09:48:04 ram  
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U  
?RCS:  
?RCS: Revision 3.0.1.3 1994/10/29  
15:56:20 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0.1.2 1993/08/30 08:57:59 ram  
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/27 14:39:20 ram  
?RCS: patch7: now sticks to the question when no default and empty answer  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:08 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit produces a bit of shell code that must be dotted in in order  
?X: to do a read. It allows for shell escapes, default assignment and  
?X: parameter evaluation.  
?X:  
?X: To use this unit, \$rp and \$dflt must hold the question and the  
?X: default answer. The question will be printed by the script itself.  
?X: Neither \$rp nor \$dflt is altered by the script.  
?X:  
?X: The myread script will stick to the question if no default is proposed  
?X: and the user answer is empty, which prevents mistakes. However, at the  
?X: end of Configure, there is an exception  
to this rule (Finish.U) where we  
?X: set nostick to a non-empty value to allow the Return key to play its role!

```
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac
```

: set up the echo used in my read

```
?X:
```

```
?X: This variable is intended to be eval'ed. It will echo the two
```

```
?X: variables $rp and $dflt (provided this latter has a non null value).
```

```
?X: It is mainly used by the myread script to echo the questions.
```

```
?X:
```

```
?X: The $n and $c below are substituted before Loc does its silly echo check
```

```
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
```

```
?X: pointing to /bin/echo.
```

```
?X:
```

```
myecho="case \"\$xxxm\" in
```

```
) echo $n \"\$rp $c\" >&4;;
```

```
*) case \"\$rp\" in
```

```
) echo $n \"[\$xxxm] $c\";;
```

```
*)
```

```
if
```

```
test `echo \"\$rp [\$xxxm] \" | wc -c` -ge $COLUMNS; then
```

```
echo \"\$rp\" >&4
```

```
echo $n \"[\$xxxm] $c\" >&4
```

```
else
```

```
echo $n \"\$rp [\$xxxm] $c\" >&4
```

```
fi
```

```
::
```

```
esac;;
```

```
esac"
```

: now set up to do reads with possible shell escape and default assignment

```
cat <<EOESC >myread
```

```
$startsh
```

```
?X:
```

```
?X: Save value of default -- do not alter original in case of eval
```

```
?X:
```

```
xxxm=\$dflt
```

```
$myecho
```

```
?X:
```

?X: If there is no default, then stop, regardless of the value in fastread.

?X: In silent mode, no new-line is to be echoed if the question is empty,

?X: since this is used to wait for the "return" key.

?X:

```
ans='!
```

```
case "$fastread" in
```

```
yes) case "$dflt" in
```

```
) ;;
```

```
*) ans=";
```

```
case "$silent-$rp" in
```

```
true-) ;;
```

```
*) echo " " >&4;;
```

```
esac;;
```

```
esac;;
```

```
*) case "$silent" in
```

```
true) case "$rp" in
```

```
) ans=";;
```

```
esac;;
```

```
esac;;
```

```
esac
```

```
while expr "X$ans" : "X!" >/dev/null; do
```

```
read answ
```

?X:

?X: Run 'eval' on the answer, in order to do variable substitution, in case

?X: the user types \$HOME or \$WHATEVER.

Variables must be evaluated now.

?X: Typing '\$HOME' won't currently prevent from substitution -- use '\$HOME'

?X: The \$1 .. \$9 and \$\*, as well as \$@, are available to refer to the

?X: default value.

?X:

```
set x $xxxm
```

```
shift
```

```
aok="; eval "ans=\\\"$answ\\\" && aok=y
```

```
case "$answ" in
```

?X:

?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell

?X: (reported by Wayne Davison)

?X: We must handle the shell escapes before dealing with possible variable

?X: substitution, since the shell we're launching in that case will be able

?X: to do it as well as we can -- RAM, 15/03/96

?X

```
!")
```

```
sh 1>&4
```

```
echo " "
```

```
$myecho
```

```
::
```

```
!*)
```

```
set x `expr "X$ans" : "X!(.*)"`
```

```

shift
sh 1>&4 -c "\$*"
echo " "
$myecho
;;
"\$ans")
case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
behaviour compatible with our general scheme.
?X:
\\&*)
set x `expr "X\$ans" : "X&(.*)\$"`
shift
case "\$1" in
-d)
fastread=yes
echo "(OK, I'll run with -d after this question.)" >&4
;;
-*)
echo "*** Sorry, \$1 not supported yet." >&4
;;
esac
$myecho
ans=!
;;
esac;;
*)
case "\$aok" in
y)
echo "*** Substitution done -- please confirm."
xxxm="\$ans"
ans=`echo $n "\$ans$c" | tr '$trnl' ' '\`
xxxm="\$ans"
ans=!
;;
*)
echo "*** Error -- try again."
ans=!
;;
esac
$myecho
;;
esac
?X: Stick in myread if no default answer and nothing was answered

```

```
case "\$ans\$xxxm\$nostick" in
")
ans=!
$myecho
;;
esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Myread.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:11:44 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE:-pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
?C: that the pipe routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe HAS_PIPE /**/
?H:.
?LINT:set d_pipe
```

```
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_pipe.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
?RCS: Revision 3.0.1.1 1993/09/13 16:02:04 ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
?S: which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
cat <<EOM
```



Most mailers can deliver mail to addresses of the INTERNET persuasion, such as user@host.edu. Some older mailers, however, require the complete path to the destination to be specified in the address.

EOM

```
rp="Does your mailer understand INTERNET addresses?"
```

```
./myread
```

```
case "$ans" in
```

```
y*) val="$define";;
```

```
*) val="$undef";;
```

```
esac
```

```
set d_internet
```

```
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_internet.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: nis.U,v $
```

```
?RCS: Revision 3.0.1.3 1997/02/28 16:17:38 ram
```

```
?RCS: patch61: ensure suitable defaults for hostcat and friends
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.2 1995/03/21 08:48:34 ram
```

```
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.1 1995/02/15 14:16:23 ram
```

```
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:09:24 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:passcat
```

```
groupcat hostcat: Myread Oldconfig test contains
```

```
?MAKE: -pick add $@ %<
```

```
?S:passcat:
```

```
?S: This variable contains a command that produces the text of the
```

```
?S: /etc/passwd file. This is normally "cat /etc/passwd", but can be
```

?S: "ypcat passwd" when NIS is used.

?S: On some systems, such as os390, there may be no equivalent

?S: command, in which case this variable is unset.

?S:.

?S:groupcat:

?S: This variable contains a command that produces the text of the

?S: /etc/group file. This is normally "cat /etc/group", but can be

?S: "ypcat group" when NIS is used.

?S: On some systems, such as os390, there may be no equivalent

?S: command, in which case this variable is unset.

?S:.

?S:hostcat:

?S: This variable contains a command that produces the text of the

?S: /etc/hosts file. This is normally "cat /etc/hosts", but can be

?S: "ypcat hosts" when NIS is used.

?S: On some systems, such as os390, there may be no equivalent

?S: command, in which case this variable is unset.

?S:.

:

see if we have to deal with yellow pages, now NIS.

?X: NeXT gives us some fun here, as always, by having both NIS (former YP)

?X: and NetInfo. But since it has both, it's ok to put the test inside the if.

?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.

```

if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
case "$passcat" in
nidump*) ;;
*)
case "$passcat" in
*ypcat*) dflt=y;;
") if $contains '^\\+' /etc/passwd >/dev/null 2>&1; then
dflt=y
else
dflt=n
fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the passwd file via yellow pages?'
./myread
case "$ans" in
y*) passcat='ypcat passwd'
@if groupcat
echo "(Assuming /etc/group is also distributed.)"
groupcat='ypcat group'
@end
;;
*) passcat='cat /etc/passwd'

```

```

@if groupcat
    echo "(Assuming /etc/group is also local.)"
    groupcat='cat /etc/group'
@end
;;
esac
;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
case
"$hostcat" in
*yocat*) dflt=y;;
") if $contains '\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
    else
        dflt=n
    fi;;
*) dflt=n;;
esac
echo " "
rp='Are you getting the hosts file via yellow pages?'
./myread
case "$ans" in
y*) hostcat='yocat hosts';;
*) hostcat='cat /etc/hosts';;
esac
;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/nis.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
  available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
eval $inlibc
case "$d_setservent_r" in
"$define")
  hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
  case "$d_setservent_r_proto:$usethreads" in
":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
```

```

eval $hasproto ;;
*) ;;
esac
case "$d_setservent_r_proto" in
define)
case "$setservent_r_proto" in
"|0) try='int setservent_r(int, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
esac
case "$setservent_r_proto" in
"|0) try='void
setservent_r(int, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
esac
case "$setservent_r_proto" in
"|0) d_setservent_r=undef
setservent_r_proto=0
echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
* ) case "$setservent_r_proto" in
REENTRANT_PROTO*) ;;
*) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "setservent_r has no prototype, not using it." >&4 ;;
esac
d_setservent_r=undef
setservent_r_proto=0
;;
esac
;;
*) setservent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_setservent\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

```

?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 14:57:53 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2 1995/01/11 14:53:31 ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:50:37 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:48 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing the config.sh
    script, which contains all the
?X: definitions figured out by Configure. The add.Config_sh command knows
?X: which variables need to be remembered. It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
    End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
    cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
    echo "I see a config.arch file, loading it." >&4
    . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
    echo " "
    dflt=y
    rp='I see a config.over file. Do you wish to load it?'

```

```

. UU/myread
case "$ans" in
n*) echo "OK, I'll ignore it.";;
*) . ./config.over
echo
"Configuration override changes have been loaded."
;;
esac
fi

```

```
@if d_portable
```

```
: in case they want portability, strip down executable paths
```

```
?X:
```

```
?X: Strip down paths in located executables. For each file, e.g. vi, there
```

```
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
```

```
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
```

```
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
```

```
?X: we can't just say 'eval $file="$file"', we have to recourse to sed.
```

```
?X: We don't use basename since it is less portable than sed.
```

```
?X:
```

```
case "$d_portable" in
```

```
"$define")
```

```
echo " "
```

```
echo "Stripping down executable paths..." >&4
```

```
xsed=$sed
```

```
for file in $loclist $trylist; do
```

```
eval sfile="\${file}"
```

```
sfile=`echo $sfile | $xsed -e 's,.*^(.*)\,1,'
```

```
eval $file="$sfile"
```

```
done
```

```
;;
```

```
esac
```

```
@end
```

```
: create config.sh file
```

```
echo " "
```

```
echo "Creating config.sh..." >&4
```

```
$spitshell <<EOT >config.sh
```

```
$startsh
```

```
#
```

```
# This file was produced by running the
```

```
Configure script. It holds all the
```

```
# definitions figured out by Configure. Should you modify one of these values,
```

```
# do not forget to propagate your changes by running "Configure -der". You may
```

```
# instead choose to run each of the .SH files by yourself, or "Configure -S".
```

```
#
```

```
# Package name : $package
```

```
# Source directory : $src
# Configuration time: $cf_time
# Configured by   : $cf_by
# Target system   : $myuname
```

EOT

```
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$stest -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/Config_sh.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setnetent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_setnetent\_r setnetent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_setnetent\_r:

?S: This variable conditionally defines the HAS\_SETNETENT\_R symbol,

?S: which indicates to the C program that the setnetent\_r()

?S: routine is available.

?S:.

?S:setnetent\_r\_proto:

?S: This variable encodes the prototype of setnetent\_r.

?S: It is zero if d\_setnetent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_setnetent\_r

?S: is defined.

?S:.

?C:HAS\_SETNETENT\_R:

?C: This symbol, if defined, indicates that the setnetent\_r routine

?C: is

available to setnetent re-entrantly.

?C:.

?C:SETNETENT\_R\_PROTO:

?C: This symbol encodes the prototype of setnetent\_r.

?C: It is zero if d\_setnetent\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_setnetent\_r

?C: is defined.



```

?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_setnetent_r_proto:$susetheads" in
":define") d_setnetent_r_proto=define
set d_setnetent_r_proto setnetent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_setnetent_r_proto" in
define)
case "$setnetent_r_proto" in
"|0) try='int setnetent_r(int, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
esac
case "$setnetent_r_proto" in
"|0) try='void setnetent_r(int, struct netent_data*);'
./protochk
"$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
esac
case "$setnetent_r_proto" in
"|0) d_setnetent_r=undef
setnetent_r_proto=0
echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
*) case "$setnetent_r_proto" in
REENTRANT_PROTO*) ;;
*) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susetheads" in
define) echo "setnetent_r has no prototype, not using it." >&4 ;;
esac
d_setnetent_r=undef
setnetent_r_proto=0
;;
esac
;;
*) setnetent_r_proto=0

```

```
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_setnetent_r.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?RCS: $Log: d_setgrent.U,v $
```

```
?RCS:
```

```
?MAKE:d_setgrent: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_setgrent:
```

```
?S: This variable conditionally defines the HAS_SETGRENТ symbol, which
```

```
?S: indicates to the C program that the setgrent() routine is available
```

```
?S: for initializing sequential access to the group database.
```

```
?S:.
```

```
?C:HAS_SETGRENТ:
```

```
?C: This symbol, if defined, indicates that the setgrent routine is
```

```
?C: available for initializing sequential access of the group database.
```

```
?C:.
```

```
?H:#$d_setgrent HAS_SETGRENТ /**/
```

```
?H:.
```

```
?LINT:set d_setgrent
```

```
: see if setgrent exists
```

```
set setgrent d_setgrent
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_setgrent.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:35 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status. On most sane systems it is simply "grep". On insane systems
?S: it is a grep followed by a cat followed by a test. This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
  greps do not return status, grrr.
  echo "grimblepritz" >grimble
  if grep blurfldyick grimble >/dev/null 2>&1 ; then
    contains=contains
  elif grep grimblepritz grimble >/dev/null 2>&1 ; then
    contains=grep
  else
    contains=contains
  fi
  rm -f grimble
  : the following should work in any shell
  case "$contains" in
  contains*)
    echo " "
    echo "AGH! Grep doesn't return a status. Attempting remedial action."
    cat >contains <<'EOSS'
    grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
  EOSS
  chmod +x contains
  esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/contains.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: Extensions.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```

?RCS: \$Log: Extensions.U,v \$

?RCS:

?MAKE:known\_extensions extensions dynamic\_ext static\_ext nonxs\_ext \  
 useposix useopcode uselanginfo : \  
 Myread hint usedl d\_sem d\_socket i\_db i\_dbm i\_rpcsvcdm i\_gdbm \  
 d\_ndbm usethreads use5005threads package test cat rsrc \  
 d\_msg d\_shm osname use64bitint \  
 libs d\_cplusplus sed ls rm contains trnl sort

?MAKE: -pick add \$@ %<

?Y:BOTTOM

?S:known\_extensions:

?S: This variable holds a list of all extensions (both XS and non-xs)  
 ?S: included in the package source distribution. This information is  
 ?S: only really of use during the Perl build, as the list makes no  
 ?S: distinction between extensions which were build and installed, and  
 ?S: those which  
 where not. See "extensions" for the list of extensions  
 ?S: actually built and available.

?S:.

?S:dynamic\_ext:

?S: This variable holds a list of XS extension files we want to  
 ?S: link dynamically into the package. It is used by Makefile.

?S:.

?S:static\_ext:

?S: This variable holds a list of XS extension files we want to  
 ?S: link statically into the package. It is used by Makefile.

?S:.

?S:nonxs\_ext:

?S: This variable holds a list of all non-xs extensions built and  
 ?S: installed by the package. By default, all non-xs extensions  
 ?S: distributed will be built, with the exception of platform-specific  
 ?S: extensions (currently only one VMS specific extension).

?S:.

?S:extensions:

?S: This variable holds a list of all extension files (both XS and  
 ?S: non-xs) installed with the package. It is propagated to Config.pm  
 ?S: and is typically used to test whether a particular extension  
 ?S: is available.

?S:.

?S:useposix:

?S: This variable holds either 'true' or 'false' to indicate  
 ?S: whether the  
 POSIX extension should be used. The sole  
 ?S: use for this currently is to allow an easy mechanism  
 ?S: for hints files to indicate that POSIX will not compile  
 ?S: on a particular system.

?S:.

?S:useopcode:

?S: This variable holds either 'true' or 'false' to indicate  
 ?S: whether the Opcode extension should be used. The sole  
 ?S: use for this currently is to allow an easy mechanism  
 ?S: for users to skip the Opcode extension from the Configure  
 ?S: command line.  
 ?S:.  
 ?S:uselanginfo:  
 ?S: This variable holds either 'true' or 'false' to indicate  
 ?S: whether the I18N::Langinfo extension should be used. The sole  
 ?S: use for this currently is to allow an easy mechanism for users to skip  
 ?S: this extension from the Configure command line.  
 ?S:.  
 ?T:xxx avail\_ext this\_ext tdir xs\_extensions nonxs\_extensions find\_extensions  
 ?INIT:: set useposix=false in your hint file to disable the POSIX extension.  
 ?INIT:useposix=true  
 ?INIT:: set useopcode=false in your hint file to disable the Opcode extension.  
 ?INIT:useopcode=true  
 ?INIT::  
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.  
 ?INIT:uselanginfo=true  
 ?LINT:extern noextensions  
 ?LINT:extern onlyextensions  
 ?T:keepextensions i  
 : Check extensions  
 echo " "  
 echo "Looking for extensions..." >&4  
 : If we are using the old config.sh, nonxs\_extensions and xs\_extensions may  
 : contain old or inaccurate or duplicate values.  
 nonxs\_extensions="  
 xs\_extensions="  
 : We do not use find because it might not be available.  
 : We do not just use MANIFEST because the user may have dropped  
 : some additional extensions into the source tree and expect them  
 : to be built.  
  
 : Function to recursively find available extensions, ignoring DynaLoader  
 : NOTE: recursion limit of 10 to prevent runaway in case of symlink madness  
 : In 5.10.1 and later, extensions are stored in directories  
 : like File-Glob instead of the older File/Glob/.  
 find\_extensions='  
 for xxx in \*; do  
 case "\$xxx" in  
 DynaLoader|dynaload) ;;  
 \*)  
 this\_ext=`echo  
 "\$xxx" | \$sed -e s/-/\\/g`;  
 case "\$this\_ext" in  
 Scalar/List/Utils) this\_ext="List/Util" ;;

```

PathTools)    this_ext="Cwd" ;;
              esac;
              echo " $xs_extensions $nonxs_extensions" > "$tdir/$$tmp";
              if $contains " $this_ext " "$tdir/$$tmp"; then
echo >&&4;
echo "Duplicate directories detected for extension $xxx" >&&4;
echo "Configure cannot correctly recover from this - shall I abort?" >&&4;
case "$knowitall" in
"" ) dflt=y;;
*) dflt=n;;
esac;
. ../UU/myread;
case "$ans" in
n*|N*) ;;
*) echo >&&4;
    echo "Ok. Stopping Configure." >&&4;
    echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&&4;
    exit 1;;
esac;
echo "Ok. You will need to correct config.sh before running make." >&&4;
fi;
$ls -l "$xxx" > "$tdir/$$tmp";
if $contains "\.xs$" "$tdir/$$tmp" > /dev/null 2>&1; then
xs_extensions="$xs_extensions $this_ext";
elif $contains "\.c$" "$tdir/$$tmp" > /dev/null
2>&1; then
xs_extensions="$xs_extensions $this_ext";
elif $test -d "$xxx"; then
nonxs_extensions="$nonxs_extensions $this_ext";
fi;
$rm -f "$tdir/$$tmp";
;;
esac;
done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions

```

```

shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
known_extensions=`echo $nonxs_extensions $xs_extensions | tr ' ' $trnl | $sort | tr $trnl ' '`

```

: Now see which are supported on this system.

?X: avail\_ext lists available XS extensions.

```
avail_ext="
```

```
for xxx in $xs_extensions ; do
```

```
case "$xxx" in
```

?X: Handle possible DOS 8.3 filename and case alterations

```
Amiga*)
```

```
case "$osname" in
```

```
amigaos) avail_ext="$savail_ext $xxx" ;;
```

```
esac
```

```
::
```

```
DB_File|db_file)
```

```
case "$i_db" in
```

```
$define)
```

```
avail_ext="$savail_ext $xxx" ;;
```

```
esac
```

```
::
```

```
GDBM_File|gdbm_fil)
```

```
case "$i_gdbm" in
```

```
$define) avail_ext="$savail_ext $xxx" ;;
```

```
esac
```

```
::
```

```
IPC/SysV|ipc/sysv)
```

: XXX Do we need a useipcsysv variable here

```
case "${d_msg}${d_sem}${d_shm}" in
```

```
*"${define}"*) avail_ext="$savail_ext $xxx" ;;
```

```
esac
```

```
::
```

```
NDBM_File|ndbm_fil)
```

```
case "$d_ndbm" in
```

```
$define)
```

```
case "$osname-$use64bitint" in
```

```
hpux-define)
```

```
case "$libs" in
```

```
*-lndbm*) avail_ext="$savail_ext $xxx" ;;
```

```
esac
```

```
::
```

```
*) avail_ext="$savail_ext $xxx" ;;
```

```
esac
```

```
::
```

```

esac
;;
ODBM_File|odbm_fil)
case "${i_dbm}${i_rpcsvcdbm}" in
*"${define}")
    case "$d_cplusplus" in
define) ;; # delete as a function name will not work
*) case "$osname-$use64bitint" in
hpux-define)
    case "$libs" in
*-ldb*) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
*) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
    esac
    ;;
esac
;;
Opcode|opcode)
case "$useopcode" in
true|define)y)
avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
POSIX|posix)
case "$useposix" in
true|define)y) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
Socket|socket)
case "$d_socket" in
true|$define)y) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
I18N/Langinfo|langinfo)
case "$uselanginfo" in
true|define)y) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
Sys/Syslog|sys/syslog)
case $osname in
amigaos) ;; # not really very useful on AmigaOS
*)
: XXX syslog requires socket
case "$d_socket" in
true|$define)y) avail_ext="$avail_ext $xxx" ;;

```



```

    esac
    ;;
esac
;;
Thread|thread)
    case "$usetthreads" in
    true|$define|y)
        case "$use5005threads" in
        $define|true|[yY]*) avail_ext="$avail_ext $xxx" ;;
        esac
    esac
esac
;;
threads|threads/shared)
    # threads and threads::shared are special cases.
    # To stop people from asking "Perl 5.8.0 was supposed
    # to have this new fancy threads
    implementation but my
    # perl doesn't have it" and from people trying to
    # (re)install the threads module using CPAN.pm and
    # CPAN.pm then offering to reinstall Perl 5.8.0,
    # the threads.pm and threads/shared.pm will always be
    # there, croaking informatively ("you need to rebuild
    # all of Perl with threads, sorry") when threads haven't
    # been compiled in.
    # --jhi
    avail_ext="$avail_ext $xxx"
    ;;
VMS*)
    ;;
Win32*)
    case "$osname" in
    cygwin) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
XS/APItest|xs/apitest)
    # This is just for testing. Skip it unless we have dynamic loading.

    case "$usedl" in
    $define) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
XS/Typemap|xs/typemap)
    # This is just for testing. Skip it unless we have dynamic loading.
    case "$usedl" in
    $define) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
*) avail_ext="$avail_ext $xxx"

```

```

;;
esac
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*) keepextensions="
  echo
  "You have requested that only certain extensions be included..." >&4
  for i in $onlyextensions; do
    case " $avail_ext " in
    *" $i "*)
      echo "Keeping extension $i."
      keepextensions="$keepextensions $i"
      ;;
    *) echo "Ignoring extension $i." ;;
    esac
  done
  avail_ext="$keepextensions"
  ;;
esac

case "$noextensions" in
") ;;
*) keepextensions="
  echo "You have requested that certain extensions be ignored..." >&4
  for i in $avail_ext; do
    case " $noextensions " in
    *" $i "*) echo "Ignoring extension $i." ;;
    *) echo "Keeping extension $i.";
      keepextensions="$keepextensions $i"
      ;;
    esac
  done
  avail_ext="$keepextensions"
  ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
case "$xxx" in
VMS*)

```

```

;;
*) nonxs_ext="$nonxs_ext $xxx"
;;
esac
done

```

```

set X $nonxs_ext
shift
nonxs_ext="$*"

```

case

```

$usedl in
$define)

```

```

$cat <<EOM

```

A number of extensions are supplied with \$package. You may choose to compile these extensions for dynamic loading (the default), compile them into the \$package executable (static loading), or not include them at all. Answer "none" to include no extensions.

Note that DynaLoader is always built and need not be mentioned here.

EOM

```

case "$dynamic_ext" in
")

```

```

: Exclude those listed in static_ext

```

```

dflt="

```

```

for xxx in $avail_ext; do

```

```

case " $static_ext " in

```

```

*" $xxx ") ;;

```

```

*) dflt="$dflt $xxx" ;;

```

```

esac

```

```

done

```

```

set X $dflt

```

```

shift

```

```

dflt="$*"

```

```

;;

```

```

*) dflt="$dynamic_ext"

```

```

# Perhaps we are reusing an old out-of-date config.sh.

```

```

case "$hint" in

```

```

previous)

```

```

if test X"$dynamic_ext" != X"$avail_ext"; then

```

```

$cat <<EOM

```

NOTICE: Your previous config.sh list may be incorrect.

The extensions now available to you are

```

${avail_ext}

```

but the default list from your previous config.sh is

```

${dynamic_ext}

```

EOM

```

fi
;;
esac
;;
esac
case
"$dflt" in
") dflt=none;;
esac
rp="What extensions do you wish to load dynamically?"
. ./myread
case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
none) dynamic_ext=' ' ;;
*) dynamic_ext="$ans" ;;
esac

case "$static_ext" in
")
: Exclude those already listed in dynamic linking
dflt="
for xxx in $avail_ext; do
case " $dynamic_ext " in
*" $xxx "*) ;;
*) dflt="$dflt $xxx" ;;
esac
done
set X $dflt
shift
dflt="$*"
;;
*) dflt="$static_ext"
;;
esac

case "$dflt" in
") dflt=none;;
esac
rp="What extensions do you wish to load statically?"
. ./myread
case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
none) static_ext=' ' ;;
*) static_ext="$ans" ;;
esac
;;
*)
$cat <<EOM

```

A number of extensions are supplied with \$package. Answer "none"

to include no extensions.

Note that DynaLoader is always built and need not be mentioned here.

EOM

```
case "$static_ext" in
")
dflt="$avail_ext" ;;
*) dflt="$static_ext"
# Perhaps we are reusing an old out-of-date config.sh.
case "$hint" in
previous)
if test X"$static_ext" != X"$avail_ext"; then
$cat <<EOM
```

NOTICE: Your previous config.sh list may be incorrect.

The extensions now available to you are

```
${avail_ext}
```

but the default list from your previous config.sh is

```
${static_ext}
```

EOM

```
fi
;;
esac
;;
esac
: Exclude those that are not xs extensions
case "$dflt" in
") dflt=none;;
esac
rp="What extensions do you wish to include?"
. ./myread
case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
none) static_ext=' ' ;;
*) static_ext="$ans" ;;
esac
;;
esac
#
# Encode is a special case. If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
*" Encode "*" # Add the subextensions of Encode
cd
```

```

"$src/cpan"
for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
done
cd "$dir"
;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check: We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO. (Failure to have these
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
# DB_File ... Fcntl ... IO ...
# or something like
# Fcntl ... NDBM_File ... IO ....
case "$extensions" in
*_File "*" Fcntl "*" IO *) ;; # DB_File
*_File "*" Fcntl "*" IO *) ;; # GDBM_File
*_File "*" IO "*" *_File *) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac

```

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/Extensions.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libc.U,v \$

?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram

?RCS: patch61: replaced .a with \$\_a all over the place  
?RCS: patch61: added support for HPUX-10 nm output  
?RCS:  
?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram  
?RCS: patch56: now knows about OS/2 platforms  
?RCS:  
?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram  
?RCS: patch54: made sure only most recent version of shared lib is picked  
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody  
?RCS: patch54: can now grok  
linux nm output with lead \_\_IO (ADO)  
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)  
?RCS:  
?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram  
?RCS: patch36: now looks for shared libraries before anything else (ADO)  
?RCS: patch36: added new nm output format (ADO)  
?RCS:  
?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram  
?RCS: patch32: added I-type symbols for nm output parsing on Linux  
?RCS:  
?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram  
?RCS: patch30: checks are now presented by succession of if/elif  
?RCS: patch30: uniformized checks for shared objects with new so symbol  
?RCS:  
?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram  
?RCS: patch23: added shared library knowledge (ADO and WED)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/01/24 14:12:17 ram  
?RCS: patch16: can now export nm\_extract as an internal-use only variable  
?RCS:  
?RCS: Revision 3.0.1.2 1993/09/13 16:09:03 ram  
?RCS: patch10: added special handling for Apollo systems (WAD)  
?RCS:  
?RCS: Revision 3.0.1.1  
1993/08/27 14:40:03 ram  
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:57 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:libc libnames +nm\_extract: echo n c rm test grep Getfile Myread \  
Oldconfig Loc sed libs incpath libpth ar runnm nm nm\_opt nm\_so\_opt \  
contains xlibpth so osname trnl tr sort uniq \_o \_a  
?MAKE: -pick add \$@ %<  
?S:libc:  
?S: This variable contains the location of the C library.  
?S:.  
?S:libnames:

?S: The constructed list of library names. Normally empty, but hint files

?S: may set this for later perusal by Configure.

?S:.

?S:nm\_extract:

?S: This variable holds the name of the extraction command used to process

?S: the output of nm and yield the list of defined symbols. It is used

?S: internally by Configure.

?S:.

?T:thislib try libnames xxx xscan xrun thisname com tans file

?F:!libnames !libc.tmp !tmp.imp

?LINT:change nm\_opt runnm

?INIT:libnames=""

: Figure out where the libc is located

case

"\$runnm" in

true)

?X: indentation is wrong on purpose--RAM

: get list of predefined functions in a handy place

echo " "

case "\$libc" in

") libc=unknown

case "\$libs" in

\*-lc\_s\*) libc=`./loc libc\_s\$\_a \$libc \$libpth`

esac

::

esac

case "\$libs" in

") ::

\*) for thislib in \$libs; do

case "\$thislib" in

-lc|-lc\_s)

: Handle C library specially below.

::

-l\*)

thislib=`echo \$thislib | \$sed -e 's/^-l//`

if try=`./loc lib\$thislib.\$so.\*' X \$libpth`; \$test -f "\$try"; then

:

elif try=`./loc lib\$thislib.\$so X \$libpth`; \$test -f "\$try"; then

:

elif try=`./loc lib\$thislib\$\_a X \$libpth`; \$test -f "\$try"; then

:

elif try=`./loc \$thislib\$\_a X \$libpth`; \$test -f "\$try"; then

:

elif try=`./loc lib\$thislib X \$libpth`; \$test -f "\$try"; then

:

elif try=`./loc \$thislib X \$libpth`; \$test -f "\$try"; then

:

elif try=`./loc \$lib\$thislib\$\_a X \$libpth`; \$test -f "\$try"; then



```

:
else
  try="
fi
libnames="$libnames $try"
;;
*) libnames="$libnames $thislib"
;;
esac
done
;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
?X: from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
set /lib/libc.$so
for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
: The messy sed command sorts on library version numbers.
  $test -r $1 || \
  set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
  tr ' ' $trnl | egrep -v \.[A-Za-z]*$' | $sed -e '
  h
  s/[0-9][0-9]*/0000&/g
  s/0*\([0-9][0-9][0-9][0-9]\)\1/g
  G
  s^\n/ /' | \
  $sort | $sed -e 's/^\.* //'^

```

```

eval set \$$#
done
$test -r $1 || set /usr/ccs/lib/libc.$so
$test -r $1 || set /lib/libsys_s$_a
;;
*)
?X: ensure the test below for the (shared) C library will fail
set blurfl
;;
esac
if $test -r "$1"; then
echo "Your (shared) C library seems to be in $1."
libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
echo
"Your C library seems to be in both /lib/clib and /lib/libc."
xxx=apollo
libc='/lib/clib /lib/libc'
if $test -r /lib/syslib; then
echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
libc="$libc /lib/syslib"
fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
libc=$incpath/usr/lib/libc$_a;
echo "Your C library seems to be in $libc. That's fine."
elif $test -r /lib/libc$_a; then
libc=/lib/libc$_a;
echo "Your C library seems to be in $libc. You're normal."
else
if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$stans"; then
:
elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$stans"; then
libnames="$libnames "`./loc clib blurfl/dyick $libpth`
elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$stans"; then
:
elif tans=`./loc Slibc$_a blurfl/dyick
$plibpth`; $test -r "$stans"; then
:
elif tans=`./loc Mlibc$_a blurfl/dyick $plibpth`; $test -r "$stans"; then
:

```

```

else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
fi
if $test -r "$stans"; then
  echo "Your C library seems to be in $stans, of all places."
  libc=$stans
else
  libc='blurfl'
fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
  dflt="$libc"
cat <<EOM

```

If the guess above is wrong (which it might be if you're using a strange compiler, or your machine supports multiple models), you can override it here.

```

EOM
else
  dflt=""
echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
cat >&4 <<EOM

```

I can't seem to find your C library. I've looked in the following places:

```

EOM
$sed 's/^/ /' libpath
cat <<EOM

```

None of these seems to contain your C library. I need to get its name...

```

EOM
fi
fn=f
rp='Where is your C library?'
./getfile
libc="$sans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
  $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "

```

```
$echo $n "This may take a while...$c" >&4
```

?X:

?X: Linux may need the special Dynamic option to nm for shared libraries.

?X: In general, this is stored in the nm\_so\_opt variable.

?X: Unfortunately, that option may be fatal on non-shared libraries.

?X:

```
for file in $*; do
case $file in
*$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
*) $nm $nm_opt $file 2>/dev/null;;
esac
done >libc.tmp
```

```
$echo $n ".$c"
```

?X:

?X: To accelerate processing, we look at the correct 'sed' command

?X: by using a small subset of libc.tmp, i.e. fprintf function.

?X: When we know which sed command to use, do the name extraction

?X:

```
$grep fprintf libc.tmp > libc.ptf
```

?X:

?X: In order to enhance readability and save some space, we define

?X: some variables that will be "eval"ed.

?X:

```
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
```

```
xrun='eval
```

```
"<libc.tmp $com >libc.list"; echo "done." >&4'
```

?X: BSD-like output, I and W types added for Linux

?X: Some versions of Linux include a leading \_\_IO in the symbol name.

?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has

?X: BSD-like output. (AD).

```
xxx=[ADTSIW]
```

```
if com="$sed -n -e 's/___IO//' -e 's/^. *$xxx *_[.]*//p' -e 's/^. *$xxx *//p'";\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

?X: SYSV-like output

```
elif com="$sed -n -e 's/___ *//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*\1/p'";\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

```
elif com="$sed -n -e '/UNDEF/d' -e '/FUNC..GL/s/^. *|___ *//p'";\
```

```
eval $xscan;\
```

```
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
eval $xrun
```

```
elif com="$sed -n -e 's/^. * D ___ *//p' -e 's/^. * D //p'";\
```

```
eval $xscan;\
```

```

$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_/' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*\1/p";\
  eval
  $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^\.*|FUNC |GLOB .*/p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/COMMON/d' -e '/DATA/d' \
  -e '/file/d' -e 's/^\([ ]*\).*\1/p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^\.*|FUNC |GLOB .*/p' -e 's/^\.*|FUNC |WEAK .*/p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__/' -e '/Undef/d' -e '/Proc/s/.*//p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^\.*|Proc .*|Text *| */p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([ ]*\)\$/\1/p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null
2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^\[0-9a-f ]*_\(.*)=.*/\1/p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n \\ \\.//p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^\._.*//' -e 's/[ ]*D[ ]*[0-9]*.*//p";\
  eval $xscan;\
$contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun

```

```

else
$nm -p $* 2>/dev/null >libc.tmp
$grep fprintf libc.tmp > libc.ptf
if com="$sed -n -e 's/^.* [ADTSIW] *_[.]*//p' -e 's/^.* [ADTSIW] //p';\
eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
then
nm_opt='-p'
eval $xrun
else
echo " "
echo "$nm didn't seem to work right. Trying $ar instead..." >&4
com="
if $ar t $libc > libc.tmp && \
$contains '^fprintf$' libc.tmp >/dev/null 2>&1
then
for thisname in $libnames $libc; do
$ar t $thisname >>libc.tmp
done
$sed
-e "s/\\$_o\\$/" < libc.tmp > libc.list
echo "Ok." >&4
elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
for thisname in $libnames $libc; do
$ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries. Use emximp which will extract exactly them.
emximp -o tmp.imp $thisname \
2>/dev/null && \
$sed -e 's/^\([_a-zA-Z0-9]*\) .*$/1/p' \
< tmp.imp >>libc.tmp
$rm -f tmp.imp
done
$sed -e "s/\\$_o\\$/" -e 's/^ \+//' < libc.tmp > libc.list
echo "Ok." >&4
else
echo "$ar didn't seem to work right." >&4
echo "Maybe this is a Cray...trying bld instead..." >&4
if
bld t $libc | \
$sed -e 's/.*/\n/' -e "s/\\$_o:.*\n/" > libc.list &&
$test -s libc.list
then
for thisname in $libnames; do
bld t $libnames | \
$sed -e 's/.*/\n/' -e "s/\\$_o:.*\n/" >>libc.list
$ar t $thisname >>libc.tmp
done

```

```

echo
"Ok." >&4
else
echo "That didn't work either." >&4
echo "No problem, I'll be compiling test programs then..." >&4
runnm=false
fi
fi
fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
echo " "
echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
$sed -n 's/^\([^ ]*\)[ ]*syscall[0-9]*[ ]*$/1/p' \
/lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/libc.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_towupper: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_towupper:

?S: This variable conditionally defines the HAS\_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS\_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d\_towupper HAS\_TOWUPPER /\*\*/

?H:.

?LINT:set d\_towupper

: see if towupper exists

```
set towupper d_towupper
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_towupper.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endnetent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_endnetent\_r endnetent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_endnetent\_r:

?S: This variable conditionally defines the HAS\_ENDNETENT\_R symbol,

?S: which indicates to the C program that the endnetent\_r()

?S: routine is available.

?S:.

?S:endnetent\_r\_proto:

?S: This variable encodes the prototype of endnetent\_r.

?S: It is zero if d\_endnetent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endnetent\_r

?S: is defined.

?S:.

?C:HAS\_ENDNETENT\_R:

?C: This symbol, if defined, indicates that the endnetent\_r routine

?C: is

available to endnetent re-entrantly.

?C:.

?C:ENDNETENT\_R\_PROTO:

?C: This symbol encodes the prototype of endnetent\_r.

?C: It is zero if d\_endnetent\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_endnetent\_r

?C: is defined.

?C:.

?H:#\$d\_endnetent\_r HAS\_ENDNETENT\_R /\*\*/

?H:#define ENDNETENT\_R\_PROTO \$endnetent\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_endnetent\_r\_proto

: see if endnetent\_r exists

set endnetent\_r d\_endnetent\_r

eval \$inlibc



```

case "$d_endnetent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_endnetent_r_proto:$usethreads" in
":define") d_endnetent_r_proto=define
set d_endnetent_r_proto endnetent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_endnetent_r_proto" in
define)
case "$endnetent_r_proto" in
"|0) try='int endnetent_r(struct netent_data*);'
./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
esac
case "$endnetent_r_proto" in
"|0) try='void endnetent_r(struct netent_data*);'
./protochk
"$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
esac
case "$endnetent_r_proto" in
"|0) d_endnetent_r=undef
endnetent_r_proto=0
echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
*) case "$endnetent_r_proto" in
REENTRANT_PROTO*) ;;
*) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "endnetent_r has no prototype, not using it." >&4 ;;
esac
d_endnetent_r=undef
endnetent_r_proto=0
;;
esac
;;
*) endnetent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_endnetent\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Options.U,v \$  
?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram  
?RCS: patch61: optdef.sh now starts with a "startsh"  
?RCS: patch61: moved some code from Head.U  
?RCS:  
?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram  
?RCS: patch59: protected option parsing code against 'echo -\*' option failure  
?RCS:  
?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram  
?RCS: patch54: added -K option for experts  
?RCS:  
?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram  
?RCS:  
patch49: this unit now exports file optdef.sh, not a variable  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram  
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings  
?RCS: patch45: file optdef.sh is no longer removed after sourcing  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram  
?RCS: patch36: ensure option definition file is removed before appending  
?RCS: patch36: protect variable definitions with spaces in them  
?RCS:  
?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram  
?RCS: patch30: now uses new me symbol to tag error messages  
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:14 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: Command line parsing. It is really important that the variables used here  
?X: be not listed in the MAKE line, or they will be saved in config.sh and  
?X: loading this file to fetch default answers would clobber the values set  
?X: herein.  
?X:  
?MAKE:Options:

```

startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp cflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U. I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them. You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=""
args_sep=""
for arg in "$@"; do
cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by """"
cat <<EOC | sed -e "s/'/""""/g" > cmdl.opt
$arg
EOC
arg_exp=`cat cmdl.opt`
args_exp="$args_exp$args_sep'$arg_exp'"
argn=`expr $argn + 1`
args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options

```

```

cat >options.awk <<'EOF'
BEGIN {
  optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

  len = length(optstr);
  for (i = 1; i <= len; i++) {
    c = substr(optstr, i, 1);
    ?X: some older awk's do not have the C ?: construct
    if (i < len) a = substr(optstr, i + 1, 1); else a = "";
    if (a == ":") {
      arg[c] = 1;
      i++;
    }
    opt[c]
    = 1;
  }
  {
    expect = 0;
    str = $0;
    if (substr(str, 1, 1) != "-") {
      printf("%s\n", str);
      next;
    }
    len = length($0);
    for (i = 2; i <= len; i++) {
      c = substr(str, i, 1);
      if (!opt[c]) {
        printf("-%s\n", substr(str, i));
        next;
      }
      printf("-%s\n", c);
      if (arg[c]) {
        if (i < len)
          printf("%s\n", substr(str, i + 1));
        else
          expect = 1;
        next;
      }
    }
  }
  END {
    if (expect)
      print "?";
  }
}
EOF

```

: process the command line options

?X: Use "\$@" to keep arguments with spaces in them from being split apart.  
?X: For the same reason, awk will output quoted arguments and the final eval  
?X: removes them and sets a proper \$\* array. An 'X' is prepended to each  
?X: argument before being fed to echo to guard against 'echo -x', where -x  
?X: would be understood as an echo option! It is removed before feeding awk.  
set X `for arg in "\$@"; do echo "X\$arg"; done |  
sed -e s/X// | awk -f options.awk`  
eval "set \$\*"
shift
rm -f options.awk

: set up default values
fastread=""
reuseval=false
config\_sh=""
alldone=""
error=""
silent=""
extractsh=""
knowitall=""
rm
-f optdef.sh posthint.sh
cat >optdef.sh <<EOS
\$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test \$# -gt 0; do
case "\$1" in
-d) shift; fastread=yes;;
-e) shift; alldone=cont;;
-f)
shift
cd ..

```

if test -r "$1"; then
  config_sh="$1"
else
  echo "$me: cannot read config file $1."
>&2
  error=true
fi
cd UU
shift;;
--help\
-h) shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift;;
-S) shift; silent=true; extractsh=true;;
-D)
  shift
  case "$1" in
  *)
    echo "$me: use '-U symbol=', not '-D symbol='." >&2
    echo "$me: ignoring -D $1" >&2
    ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\"/g" -e "s/=(.*)/=\\1/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
-U)
  shift
  case "$1" in
  *) echo "$1" >> optdef.sh;;
  *=*)
    echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
    echo "$me: ignoring -U $1" >&2
    ;;
  *) echo "$1='undef'" >> optdef.sh;;
  esac
  shift
  ;;
-A)
  shift
  xxx=""
  yyy="$1"
  zzz=""
  uuu=undef

```

```

case "$yyy" in
  *=*) zzz=`echo "$yyy"|sed 's!=. *!!`
      case "$zzz" in
        *.* ) zzz=" " ;;
        *)   xxx=append

              zzz=" "`echo "$yyy"|sed 's!^[^=]*=!!`
              yyy=`echo "$yyy"|sed 's!=. *!!` ;;
        esac
      ;;
    esac
  case "$xxx" in
    ") case "$yyy" in
      *.* ) xxx=`echo "$yyy"|sed 's!:. *!!`
          yyy=`echo "$yyy"|sed 's!^[^:] *!!`
          zzz=`echo "$yyy"|sed 's!^[^=]*=!!`
          yyy=`echo "$yyy"|sed 's!=. *!!` ;;
      *)   xxx=`echo "$yyy"|sed 's!:. *!!`
          yyy=`echo "$yyy"|sed 's!^[^:] *!!` ;;
    esac
  ;;
  esac
  case "$xxx" in
    append)
  echo "$yyy=\("${$yyy}$zzz\\"" >> posthint.sh ;;
  clear)
  echo "$yyy=" >> posthint.sh ;;
  define)
    case "$zzz" in
      ") zzz=define ;;
    esac
  echo "$yyy='$zzz'" >> posthint.sh ;;
  eval)
  echo "eval \("${yyy}$zzz\\"" >> posthint.sh ;;
  prepend)
  echo "$yyy=\("${zzz}${yyy}\\"" >> posthint.sh ;;
  undef)

    case "$zzz" in
      ") zzz="$uuu" ;;
    esac
  echo "$yyy=$zzz" >> posthint.sh ;;
  *) echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
  esac
  shift
  ;;
  -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
  exit 0;;

```

```

--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
        [-U symbol] [-U symbol=] [-A command:symbol...]
-d : use defaults for all answers.
-e : go on without questioning past the production of config.sh.
-f : specify an alternate default configuration file.
-h : print this help message and exit (with an error status).
-r : reuse C symbols value if possible (skips costly nm extraction).
-s : silent mode, only echoes questions and essential information.
-D : define symbol to have some value:
    -D symbol      symbol gets the value
'define'
    -D symbol=value  symbol gets the value 'value'
common used examples (see INSTALL for more info):
    -Duse64bitint    use 64bit integers
    -Duse64bitall    use 64bit integers and pointers
    -Dusethreads     use thread support
    -Dinc_version_list=none do not include older perl trees in @INC
    -DEBUGGING=none  DEBUGGING options
    -Dcc=gcc         choose your compiler
    -Dprefix=/opt/perl5  choose your destination
-E : stop at the end of questions, after having produced config.sh.
-K : do not use unless you know what you are doing.
-O : ignored for backward compatibility
-S : perform variable substitutions on all .SH files (can mix with -f)
-U : undefine symbol:
    -U symbol      symbol gets the value 'undef'
    -U symbol=     symbol gets completely empty
e.g.: -Uversiononly
-A : manipulate symbol after the platform specific hints have been applied:
    -A append:symbol=value  append value to symbol
    -A symbol=value         like append:, but with a separating space
    -A define:symbol=value  define symbol to have value
    -A clear:symbol         define symbol to be "
    -A define:symbol        define symbol to be 'define'
    -A eval:symbol=value    define symbol to be eval of value
    -A prepend:symbol=value prepend value to symbol
    -A undef:symbol         define symbol to be 'undef'
    -A undef:symbol=       define symbol to be "
e.g.: -A prepend:libswanted='cl pthread '

```



```

-A cflags=-DSOME_MACRO
-V : print version number and exit (with a zero status).
EOM
exit 1
;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me,
since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
case "$extractsh" in
true) ;;
*)
if test ! -t 0; then
echo "Say 'sh Configure', not 'sh <Configure'"
exit 1
fi
;;
esac
;;
esac

```

```

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputting on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

```

```

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\ optdef.sh >/dev/null 2>&1
if test $? = 0; then

```

```
    echo "Configure does not support \ in -D arguments"
    exit 1
fi
./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Options.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_isinfl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isinfl:

?S: This variable conditionally defines the HAS\_ISINFL symbol, which

?S: indicates to the C program that the isinfl() routine is available.

?S:.

?C:HAS\_ISINFL:

?C: This symbol, if defined, indicates that the isinfl routine is

?C: available to check whether a long double is an infinity.

?C:.

?H:#\$d\_isinfl HAS\_ISINFL /\*\*/

?H:.

?LINT:set d\_isinfl

: see if isinfl exists

set isinfl d\_isinfl

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_isinfl.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_stdlib.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:27 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:i\_stdlib: Nothing  
?MAKE: -pick add \$@ %<  
?S:i\_stdlib:  
?S: This variable unconditionally defines the I\_STDLIB symbol.  
?S:.  
?C:I\_STDLIB:  
?C: This symbol is always defined, indicating that <stdlib.h> exists  
?C: and should be included.  
?C:.  
?H:#define I\_STDLIB /\*\*/  
?H:.  
: stub, used only to satisfy other units  
i\_stdlib='define'

Found in

path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i\_stdlib.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2014, H.Merijn Brand  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_backtrace.U,v \$  
?RCS:  
?MAKE:d\_backtrace: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_backtrace:  
?S: This variable conditionally defines the HAS\_BACKTRACE symbol, which  
?S: indicates to the C program that the backtrace() routine is available  
?S: to get a stack trace.  
?S:.  
?C:HAS\_BACKTRACE:

?C: This symbol, if defined, indicates that the backtrace() routine is  
?C: available to get a stack trace. The <execinfo.h> header must be  
?C: included to use this routine.

?C:.

?H:#\$d\_backtrace HAS\_BACKTRACE /\*\*/

?H:.

?LINT:set d\_backtrace

:

see if backtrace exists

set backtrace d\_backtrace

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_backtrace.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_getpagsz.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:13:10 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:14 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_getpagsz: Compile Oldconfig Myread Inlibc Findhdr

?MAKE: -pick add \$@ %<

?S:d\_getpagsz:

?S: This variable conditionally defines HAS\_GETPAGESIZE if getpagesize()

?S: is available to get the system page size.

?S:.

?C:HAS\_GETPAGESIZE

(GETPAGESIZE):

?C: This symbol, if defined, indicates that the getpagesize system call

?C: is available to get system page size, which is the granularity of

?C: many memory management calls.

?C:.

?H:#\$d\_getpagsz HAS\_GETPAGESIZE /\*\*/

?H:.

```
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_getpagsz.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

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?RCS: You may reuse parts of this distribution only within the terms of
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```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
```

```
?RCS:
```

```
?RCS: $Log: warnflags.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:10:02 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:warnflags:
```

```
?S: This variable contains any additional C compiler flags to generate
```

```
?S: warnings from the compiler. It is up to the Makefile to use this.
```

```
?S:.
```

```
: offer additional
```

```
warning flags for compilation
```

```
$cat <<EOH
```

You may wish to compile with extra compiler warnings enabled.

Note that doing so enhances your chance of receiving your free set of steak knives, particularly if you find any bugs and report them.

If you don't want extra warnings, answer "none".

```
EOH
```

```
case "$warnflags" in
```

```
) case "$cc" in
```

```
*gcc*)
```

```
dflt="-Wall -Wno-comment"
```

```
if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
```

```
:
```

```
else
  dflt="$dflt -Wno-implicit"
fi
;;
*) dflt="none";;
esac
;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac
```

rp="Any \$cc flags to enable warnings?"

```
./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/warnflags.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/baserev.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_mntent.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
?S:.
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
```

```
?C:
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR /**/
?H:
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_gethbyad.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "\${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOESC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
eval "install${prefixvar}=\`echo \`${prefixvar}exp | sed \"s#^\${prefixexp#\${installprefixexp#\"`\"
else
eval "install${prefixvar}=\`${prefixvar}exp\"`
fi
```



```
EOSC
chmod +x installprefix
$unicefix installprefix
```

```
: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
```

```
cat <<EOS >setprefixvar
```

```
$startsh
```

```
EOS
```

```
cat <<'EOSC' >>setprefixvar
```

```
eval "${prefixvar}=\\"$ans\""
```

```
eval "${prefixvar}exp=\\"$ansexp\""
```

```
./installprefix
```

```
EOSC
```

```
chmod +x setprefixvar
```

```
$unicefix setprefixvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/Setprefixvar.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:i_poll: Inhdr Hasfield
```

```
?MAKE:-pick add $@ %<
```

```
?S:i_poll:
```

```
?S: This variable conditionally defines the I_POLL symbol, and indicates
```

```
?S: whether a C program should include <poll.h>.
```

```
?S:.
```

```
?C:I_POLL:
```

```
?C: This symbol, if defined, indicates that <poll.h> exists and
```

```
?C: should be included. (see also HAS_POLL)
```

```
?C:.
```

```
?H:#$i_poll I_POLL /**/
```

```
?H:.
```

```
?LINT:set i_poll
```

```
: see if this is a poll.h system
```

```
set poll.h i_poll
```

```
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/U/perl/i\_poll.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
?RCS: Revision 3.0.1.2 1994/08/29 16:14:43 ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 06:57:55 ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
?S:.
?C:HAS_TZNAME:
?C: This symbol, if defined, indicates that the tzname[]
array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME /**/
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
val="$define"
echo 'tzname[] found.' >&4
else
val="$undef"
echo 'tzname[] NOT found.' >&4
fi
set d_tzname
eval $setvar
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/dist/U/d\_tzname.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:07:31 ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
?C: the difftime routine is
?C: available.
?C:.
?H:#$d_difftime HAS_DIFFTIME /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_difftime.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Inlibc.U,v \$  
?RCS: Revision 3.0.1.1 1994/10/29 15:55:08 ram  
?RCS: patch36: call ./whoa explicitly instead of relying on PATH  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:03 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit checks for the definition of a given function.  
?X:  
?X: To use it, say:  
?X: set function d\_func  
?X: eval \$inlibc  
?X:  
?MAKE:Inlibc: Csym Whoa Oldconfig  
?MAKE: -pick add \$@ %<  
?LINT:define inlibc  
?V:inlibc  
?S:inlibc:  
?S: This  
shell variable is used internally by Configure to check  
?S: wether a given function is defined or not. A typical use is:  
?S: set function d\_func  
?S: eval \$inlibc  
?S: That will print a message, saying wether function was found or  
?S: not and set d\_func accordingly.  
?S:.  
?T:was tx sym tres td tu var  
: define an is-in-libc? function  
inlibc='echo " "; td=\$define; tu=\$undef;  
sym=\$1; var=\$2; eval "was=\\$2";  
tx=yes;  
case "\$reuserval\$was" in  
true) ;;  
true\*) tx=no;;  
esac;  
case "\$tx" in  
yes)  
set \$sym tres -f;  
eval \$csym;  
case "\$tres" in  
true)  
echo "\$sym() found." >&4;  
case "\$was" in \$undef) . ./whoa; esac; eval "\$var=\\$td";

```

*)
echo "$sym() NOT found." >&4;
case "$was" in $define) ./whoa; esac; eval "$var=\$tu";;
esac;;
*)
case "$was" in
$define) echo "$sym() found." >&4;;
*) echo "$sym() NOT found." >&4;;
esac;;
esac'

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Inlibc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_safebcpy.U,v \$

?RCS: Revision 3.0.1.4 1997/02/28 15:40:58 ram

?RCS: patch61: improved overlapping copy check

?RCS: patch61: comfort them if they have memmove

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.3 1995/07/25 13:58:40 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

?RCS:

?RCS: Revision 3.0.1.2 1995/01/11 15:29:23 ram

?RCS: patch45: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:49:03

ram

?RCS: patch23: ensure string is not optimized in read-only memory (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:58 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_safebcpy: cat d\_bcopy +cc +optimize +ccflags +ldflags +libs rm \

d\_memmove i\_memory i\_stdlib i\_string i\_unistd Oldconfig Setvar

?MAKE: -pick add \$@ %<

?S:d\_safebcpy:  
?S: This variable conditionally defines the HAS\_SAFE\_BCOPY symbol if  
?S: the bcopy() routine can do overlapping copies.  
?S:.  
?C:HAS\_SAFE\_BCOPY (SAFE\_BCOPY):  
?C: This symbol, if defined, indicates that the bcopy routine is available  
?C: to copy potentially overlapping memory blocks. Otherwise you should  
?C: probably use memmove() or memcpy(). If neither is defined, roll your  
?C: own version.  
?C:.  
?H:#\$d\_safebcpy HAS\_SAFE\_BCOPY /\*\*/  
?H:.  
?F:!safebcpy  
?LINT: set d\_safebcpy  
: can bcopy handle overlapping blocks?  
?X: assume the worst  
val="\$undef"  
case "\$d\_bcopy" in  
"\$define")  
echo " "  
echo "Checking to see if your bcopy() can do overlapping  
copies..." >&4  
\$cat >foo.c <<EOCP  
#\$i\_memory I\_MEMORY  
#\$i\_stdlib I\_STDLIB  
#\$i\_string I\_STRING  
#\$i\_unistd I\_UNISTD  
EOCP  
\$cat >>foo.c <<'EOCP'  
#include <stdio.h>  
#ifdef I\_MEMORY  
# include <memory.h>  
#endif  
#ifdef I\_STDLIB  
# include <stdlib.h>  
#endif  
#ifdef I\_STRING  
# include <string.h>  
#else  
# include <strings.h>  
#endif  
#ifdef I\_UNISTD  
# include <unistd.h> /\* Needed for NetBSD \*/  
#endif  
int main()  
{  
char buf[128], abc[128];  
char \*b;

```
int len;
int off;
int align;
```

?X: Copy "abcde..." string to char abc[] so that gcc doesn't

?X: try to store the string in read-only memory.

```
bcopy("abcdefghijklmnopqrstuvwxy0123456789", abc, 36);
```

```
for (align = 7; align >= 0; align--) {
  for (len = 36; len; len--) {
    b = buf+align;
    bcopy(abc, b, len);
    for (off = 1; off <= len; off++) {
      bcopy(b, b+off, len);
      bcopy(b+off, b, len);
      if (bcmp(b, abc, len))
        exit(1);
    }
  }
}
exit(0);
}
```

EOCP

```
if $cc $optimize $ccflags $ldflags \
  -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
  2>/dev/null; then
    echo "Yes, it can."
    val="$define"
  else
    echo "It can't, sorry."
    case "$d_memmove" in
      "$define") echo "But that's Ok since you have memmove()." ;;
    esac
  fi
else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
    "$define") echo "But that's Ok since you have memmove()." ;;
  esac
fi
;;
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_safebcpy.U
```

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?RCS:

?MAKE:d\_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma:

?S: This variable conditionally defines the HAS\_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d\_tgamma and d\_lgamma\_r.

?S:.

?C:HAS\_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS\_TGAMMA and

?C: HAS\_LGAMMA\_R.

?C:.

?H:#\$d\_lgamma HAS\_LGAMMA /\*\*/

?H:.

?LINT:set d\_lgamma

: see if lgamma exists

set lgamma d\_lgamma

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_lgamma.U
```

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?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:dtraceobject dtracexnolib: usedtrace dtrace cc cflags optimize \

Compile cat rm\_try

?MAKE: -pick add \$@ %<

?S:dtraceobject:

?S: Whether we need to build an object file with the dtrace tool.

?S:.

?S:dtracexnolib:

?S: Whether dtrace accepts -xnolib. If available we call dtrace -h

?S: and dtrace -G with -xnolib to allow dtrace to run in a jail on

?S: FreeBSD.

?S:.

?F: !perldtrace.h



```

?T:xnolib
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
    case "$dtracexnolib" in
    $define|true|[yY]*)
        dtracexnolib=$define
$dtrace -h -xnolib -s ../perldtrace.d -o perldtrace.h
;;
'|")
    if $dtrace -h -xnolib -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
        dtracexnolib=$define
        echo "Your dtrace accepts -xnolib"
    elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
        dtracexnolib=$undef
        echo "Your dtrace doesn't accept -xnolib"
    else
        echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
        exit 1
    fi
;;
*)
    dtracexnolib=$undef
$dtrace -h -s ../perldtrace.d -o perldtrace.h
;;
esac
case $dtracexnolib in
$define) xnolib=-xnolib ;;
*) xnolib= ;;
esac

case "$dtraceobject" in
$define|true|[yY]*)
    dtraceobject=$define
    ;;
'|")
    $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
    PERL_LOADED_FILE("dummy");
    return 0;
}
EOM
    dtraceobject=$undef
    if $cc -c -o try.o $optimize $ccflags try.c \
        && $dtrace -G $xnolib -s ../perldtrace.d try.o >/dev/null 2>&1; then

```

```

dtraceobject=$define
    echo "Your dtrace builds an object file"
fi
;;
*) dtraceobject=$undef ;;
esac
$rm_try perldtrace.o perldtrace.h
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/dtraceobject.U

```

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_siginfo\_si\_errno d\_siginfo\_si\_pid d\_siginfo\_si\_uid d\_siginfo\_si\_addr d\_siginfo\_si\_status  
d\_siginfo\_si\_band d\_siginfo\_si\_value d\_siginfo\_si\_fd: d\_sigaction pidtype uidtype Hasfield\_t

?MAKE: -pick add \$@ %<

?S:d\_siginfo\_si\_errno:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_ERRNO symbol,

?S: which indicates that the siginfo\_t struct has the si\_errno member.

?S:.

?S:d\_siginfo\_si\_pid:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_PID symbol,

?S: which indicates that the siginfo\_t struct has the si\_pid member.

?S:.

?S:d\_siginfo\_si\_uid:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_UID symbol,

?S: which indicates that the siginfo\_t struct has the si\_uid member.

?S:.

?S:d\_siginfo\_si\_addr:

?S: This

variable conditionally defines the HAS\_SIGINFO\_SI\_ADDR symbol,

?S: which indicates that the siginfo\_t struct has the si\_addr member.

?S:.

?S:d\_siginfo\_si\_status:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_STATUS symbol,

?S: which indicates that the siginfo\_t struct has the si\_status member.

?S:.

?S:d\_siginfo\_si\_band:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_BAND symbol,

?S: which indicates that the siginfo\_t struct has the si\_band member.

?S:.

?S:d\_siginfo\_si\_value:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_VALUE symbol,

?S: which indicates that the siginfo\_t struct has the si\_value member.

?S:.

?S:d\_siginfo\_si\_fd:

?S: This variable conditionally defines the HAS\_SIGINFO\_SI\_FD symbol,

?S: which indicates that the siginfo\_t struct has the si\_fd member.

?S:.

?C:HAS\_SIGINFO\_SI\_ERRNO:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_errno member

?C:.

?C:HAS\_SIGINFO\_SI\_PID:

?C: This

symbol, if defined, indicates that siginfo\_t has the

?C: si\_pid member

?C:.

?C:HAS\_SIGINFO\_SI\_UID:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_uid member

?C:.

?C:HAS\_SIGINFO\_SI\_ADDR:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_addr member

?C:.

?C:HAS\_SIGINFO\_SI\_STATUS:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_status member

?C:.

?C:HAS\_SIGINFO\_SI\_BAND:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_band member

?C:.

?C:HAS\_SIGINFO\_SI\_VALUE:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_value member

?C:.

?C:HAS\_SIGINFO\_SI\_FD:

?C: This symbol, if defined, indicates that siginfo\_t has the

?C: si\_fd member

?C:.

?H:#\$d\_siginfo\_si\_errno HAS\_SIGINFO\_SI\_ERRNO /\*\*/

?H:#\$d\_siginfo\_si\_pid HAS\_SIGINFO\_SI\_PID /\*\*/

?H:#\$d\_siginfo\_si\_uid HAS\_SIGINFO\_SI\_UID /\*\*/

?H:#\$d\_siginfo\_si\_addr HAS\_SIGINFO\_SI\_ADDR /\*\*/

?H:#\$d\_siginfo\_si\_status HAS\_SIGINFO\_SI\_STATUS /\*\*/

?H:#\$d\_siginfo\_si\_band HAS\_SIGINFO\_SI\_BAND /\*\*/

?H:#\$d\_siginfo\_si\_value HAS\_SIGINFO\_SI\_VALUE /\*\*/

?H:#\$d\_siginfo\_si\_fd HAS\_SIGINFO\_SI\_FD /\*\*/

```

?H:
:
see what siginfo fields we have
case "$d_sigaction" in
"$define")
echo "Checking if your siginfo_t has si_errno field...">&4
set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_pid field...">&4
set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_uid field...">&4
set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_addr field...">&4
set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_status field...">&4
set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_band field...">&4
set
d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_value field...">&4
set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
eval $hasfield_t;

echo "Checking if your siginfo_t has si_fd field...">&4
set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
eval $hasfield_t;

;;
*)
d_siginfo_si_errno="$undef"
d_siginfo_si_pid="$undef"
d_siginfo_si_uid="$undef"
d_siginfo_si_addr="$undef"
d_siginfo_si_status="$undef"
d_siginfo_si_band="$undef"
d_siginfo_si_value="$undef"
d_siginfo_si_fd="$undef"

```

```
;;  
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_siginfo_si.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
```

```
?RCS: $Log: d_pathconf.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/10/29 16:14:54 ram
```

```
?RCS: patch36: created by ADO
```

```
?RCS:
```

```
?MAKE:d_pathconf d_fpathconf: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_pathconf:
```

```
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
```

```
?S: indicates to the C program that the pathconf() routine is available
```

```
?S: to determine file-system related limits and options
```

```
associated
```

```
?S: with a given filename.
```

```
?S:.
```

```
?S:d_fpathconf:
```

```
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
```

```
?S: indicates to the C program that the pathconf() routine is available
```

```
?S: to determine file-system related limits and options associated
```

```
?S: with a given open file descriptor.
```

```
?S:.
```

```
?C:HAS_PATHCONF:
```

```
?C: This symbol, if defined, indicates that pathconf() is available
```

```
?C: to determine file-system related limits and options associated
```

```
?C: with a given filename.
```

```
?C:.
```

```
?C:HAS_FPATHCONF:
```

```
?C: This symbol, if defined, indicates that pathconf() is available
```

```
?C: to determine file-system related limits and options associated
```

```
?C: with a given open file descriptor.
```

```
?C:.
?H:#$d_pathconf HAS_PATHCONF /**/
?H:#$d_fpathconf HAS_FPATHCONF /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
eval $inlibc
```

```
@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc
```

```
@end
```

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_pathconf.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lroundl:

?S: This variable conditionally defines the HAS\_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS\_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_lroundl HAS\_LROUNDL /\*\*/

?H:.

?LINT:set d\_lroundl

: see if lroundl exists

set lroundl d\_lroundl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_lroundl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:08:42 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:40 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
?C:PORTAR:
?C: This manifest constant must
?C: be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmags:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
    char *arfmag = ARFMAG;
    int sarmag = SARMAG;
    struct ar_hdr arh;

    strncpy(arh.ar_fmags, arfmag, 2);
```

```

#ifdef PORTAR
printf("D\n");
#else
printf("U\n");
#endif
exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
$cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
case "`./portar`" in
D)
val="$define"
echo "We'll be defining PORTAR for you."
;;
U)
val="$undef"
echo "We don't seem to need PORTAR defined here."
;;
*)
val="$define"
echo "(My test program gave me an unexpected value!)"
echo "I'll just define PORTAR to be sure."
;;
esac
else
echo "(Strange, I couldn't get my test
program to compile.)"
echo "We'll just define PORTAR in this case."
val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_PORTAR.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_static\_inline.U,v \$

?RCS:

?RCS: Copyright (c) 2010 Andrew Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>

?RCS:

?MAKE:d\_static\_inline perl\_static\_inline: Compile Setvar gccversion \  
 cat echo run hint rm rm\_try

?MAKE: -pick add \$@ %<

?S:d\_static\_inline:

?S: This variable conditionally defines the HAS\_STATIC\_INLINE symbol,  
 ?S: which indicates that the C compiler supports C99-style static  
 ?S: inline. That is, the function can't be called from another  
 ?S: translation unit.

?S:.

?S:perl\_static\_inline:

?S: This variable defines the PERL\_STATIC\_INLINE  
 symbol to  
 ?S: the best-guess incantation to use for static inline functions.  
 ?S: Possibilities include  
 ?S: static inline (c99)  
 ?S: static \_\_inline\_\_ (gcc -ansi)  
 ?S: static \_\_inline (MSVC)  
 ?S: static \_inline (older MSVC)  
 ?S: static (c89 compilers)

?S:.

?C:HAS\_STATIC\_INLINE :

?C: This symbol, if defined, indicates that the C compiler supports  
 ?C: C99-style static inline. That is, the function can't be called  
 ?C: from another translation unit.

?C:.

?C:PERL\_STATIC\_INLINE:

?C: This symbol gives the best-guess incantation to use for static  
 ?C: inline functions. If HAS\_STATIC\_INLINE is defined, this will  
 ?C: give C99-style inline. If HAS\_STATIC\_INLINE is not defined,  
 ?C: this will give a plain 'static'. It will always be defined  
 ?C: to something that gives static linkage.  
 ?C: Possibilities include  
 ?C: static inline (c99)  
 ?C: static \_\_inline\_\_ (gcc -ansi)  
 ?C: static \_\_inline (MSVC)  
 ?C: static \_inline (older MSVC)  
 ?C: static  
 (c89 compilers)

?C:.

?H:#\$d\_static\_inline HAS\_STATIC\_INLINE /\*\*/  
 ?H:#define PERL\_STATIC\_INLINE \$perl\_static\_inline /\*\*/  
 ?H:.

?LINT:set d\_static\_inline

?T:inline xxx

```

?F:!try
: see what flavor, if any, of static inline is supported
echo " "
echo "Checking to see if your system supports static inline..."
?X: Build two programs. The first uses static inline in file a.c and
?X: should work. The second also includes b.c which tries to link against
?X: the static function in a.c. This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
    int y;

    y = f_via_a(0);
#ifdef USE_B
    y = f_via_b(0);
#endif
    if (y == 42) {
        return EXIT_SUCCESS;
    }
    else {
        return EXIT_FAILURE;
    }
}
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
    int y;
    y = x + 42;
    return y;
}

int f_via_a(int x)
{
    return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
f_via_b(int x)
{
    return f(x);
}

```

## EOCP

```
# Respect a hint (or previous) value for perl_static_inline, if there is one.
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
# For gcc, prefer __inline__, which will still permit
# cflags.SH to add in -ansi.
case "$gccversion" in
") xxx="__inline__ __inline__ inline inline";;
*) xxx="__inline__ inline __inline__ inline";;
esac
for inline in $xxx; do
set try -DINLINE=$inline a.c
if eval $compile && $run ./try; then
# Now make sure there is no external linkage of static
# functions
set try -DINLINE=$inline -DUSE_B a.c b.c
if eval $compile && $run ./try; then
$echo "Your compiler supports static $inline, " >&4
$echo "but it also creates an external definition," >&4
$echo "so I won't use it." >&4
val=$undef
else
$echo "Your compiler supports static $inline." >&4
val=$define
perl_static_inline="static $inline";
break;
fi
else
$echo
"Your compiler does NOT support static $inline." >&4
val="$undef"
fi
done
;;
*inline*) # Some variant of inline exists.
echo "Keeping your $hint value of $perl_static_inline."
val=$define
;;
static) # No inline capabilities
echo "Keeping your $hint value of $perl_static_inline."
val=$undef
;;
*) # Unrecognized previous value -- blindly trust the supplied
# value and hope it makes sense. Use old value for
# d_static_inline, if there is one.
echo "Keeping your $hint value of $perl_static_inline."
case "$d_static_inline" in
```

```

") val=$define ;;
*) val=$d_static_inline ;;
esac
;;
esac
# Fallback to plain 'static' if nothing worked.
case "$perl_static_inline" in
")
perl_static_inline="static"
val=$undef
;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_static_inline.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Finish.U,v \$

?RCS: Revision 3.0.1.6 1995/02/15 14:09:30 ram

?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)

?RCS:

?RCS: Revision 3.0.1.5 1994/10/29 15:53:14 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.4 1994/05/06 14:19:37 ram

?RCS: patch23: added blank lines around 'End of Configure'

?RCS:

?RCS: Revision 3.0.1.3 1993/10/16 13:46:09 ram

?RCS: patch12: replaced Config\_h by Magic\_h in the dependency line

?RCS:

?RCS:

Revision 3.0.1.2 1993/09/13 15:45:26 ram

?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode

```

?RCS:
?RCS: Revision 3.0.1.1 1993/08/30 08:55:59 ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script. It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
echo "Stopping at your request, leaving temporary files around."
exit 0
;;
cont)
;;
")
dflt="
nostick=true
$cat <<EOM

```

If you'd like to make any changes to the config.sh file before I begin to configure things, do it as a shell escape now (e.g. !vi config.sh).

```

EOM
rp="Press return or use a shell escape to edit config.sh:"
. UU/myread
nostick="
case "$ans" in
") ;;
*) : in case they cannot read
sh 1>&4 -c "$ans";;
esac
;;
esac

```

: if this fails, just run all the .SH files by hand

```
./config.sh
```

```
?X:
```

```
?X: Turn silent mode off from now on (we want a verbose file extraction).
```

```
?X: This means we have to explicitly test for '$silent' from now on to
```

```
?X: strip off any verbose messages.
```

```
?X:
```

```
echo " "
```

```
exec 1>&4
```

```
pwd=`pwd`
```

```
./UU/extract
```

```
cd "$pwd"
```

```
if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
```

```
  dflt=y
```

```
  case "$silent" in
```

```
  true) ;;
```

```
  *)
```

```
    $cat <<EOM
```

Now you need to generate make dependencies by running "\$make depend".

You might prefer to run it in background: "\$make depend > makedepend.out &"

It can take a while, so you might not want to run it right now.

```
EOM
```

```
;;
```

```
esac
```

```
rp="Run $make depend now?"
```

```
. UU/myread
```

```
case "$ans" in
```

```
y*)
```

```
  $make depend
```

```
&& echo "Now you must run '$make'."
```

```
;;
```

```
*)
```

```
  echo "You must run '$make depend' then '$make'."
```

```
;;
```

```
esac
```

```
elif test -f [Mm]akefile; then
```

```
  echo " "
```

```
  echo "Now you must run a $make."
```

```
else
```

```
  echo "Configure done."
```

```
fi
```

```
if $test -f Policy.sh; then
```

```
  $cat <<EOM
```

If you compile \$package on a different machine or from a different object directory, copy the Policy.sh file from this object directory to the new one before you run Configure -- this will help you with most of the policy defaults.

EOM

fi

```
if $test -f UU/config.msg; then
```

```
    echo "Hmm. I also noted the following information while running:"
```

```
    echo " "
```

```
    $cat UU/config.msg >&4
```

fi

?X:

?X: kit\*isdone files are left over by shell archives built using the makedist

?X: script which comes from dist, while ark\*isdone files are left over by

?X: the cshar archive maker.

?X:

```
$rm -f kit*isdone ark*isdone
```

```
$rm -rf UU
```

: End of Configure

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Finish.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpwnam\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getpwnam\_r getpwnam\_r\_proto: Inlibc Protochk Hasproto i\_systypes \

usethreads i\_pwd extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getpwnam\_r:

?S: This variable conditionally defines the HAS\_GETPWNAM\_R symbol,

?S: which indicates to the C program that the getpwnam\_r()

?S: routine is available.

?S:.

?S:getpwnam\_r\_proto:

?S: This variable encodes the prototype of getpwnam\_r.

?S: It is zero if d\_getpwnam\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getpwnam\_r

?S: is defined.

```

?S:.
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
  getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
  hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
  case "$d_getpwnam_r_proto:$usethreads" in
  ":define") d_getpwnam_r_proto=define
    set d_getpwnam_r_proto getpwnam_r $hdrs
    eval $hasproto ;;
  *) ;;
  esac
  case "$d_getpwnam_r_proto" in
  define)
    case "$getpwnam_r_proto" in
    "|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
    ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
    esac
    case "$getpwnam_r_proto" in
    "|0) try='int getpwnam_r(const char*, struct passwd*,
    char*, int, struct passwd**);'
    ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
    esac
    case "$getpwnam_r_proto" in
    "|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
    ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
    esac
    case "$getpwnam_r_proto" in
    "|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
    ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
    esac
    case "$getpwnam_r_proto" in

```



```

"|0) d_getpwnam_r=undef
  getpwnam_r_proto=0
  echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
*) case "$getpwnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
  define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwnam_r=undef
  getpwnam_r_proto=0
  ;;
  esac
  ;;
  *) getpwnam_r_proto=0
  ;;
  esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d_getpwnam_r.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: libperl.U,v \$

?RCS:

?RCS: Copyright (c) 1996-1998, Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```

?MAKE:libperl useshrplib shrpenv ldlibpthname: \
Myread Oldconfig archlibexp awk cat libc \
_a osname osvers so patchlevel subversion usedl ld \
ccdflags installarchlib userlocatableinc

```

?MAKE: -pick wipe \$@ %<

?S:libperl:

?S: The perl executable is obtained by linking perlmain.c with

?S: libperl, any static extensions (usually just DynaLoader),

?S: and any other libraries needed on this system. libperl

?S: is usually libperl.a, but can also be libperl.so.xxx if

?S: the user wishes to build a perl executable with a shared

?S: library.

?S:.

?S:useshrplib:

?S: This variable is set to 'true' if the user wishes  
 ?S: to build a shared libperl, and 'false' otherwise.  
 ?S:.  
 ?S:shrpenv:  
 ?S: If  
 the user builds a shared libperl.so, then we need to tell the  
 ?S: 'perl' executable where it will be able to find the installed libperl.so.  
 ?S: One way to do this on some systems is to set the environment variable  
 ?S: LD\_RUN\_PATH to the directory that will be the final location of the  
 ?S: shared libperl.so. The makefile can use this with something like  
 ?S: \$shrpenv \$(CC) -o perl perlmain.o \$libperl \$libs  
 ?S: Typical values are  
 ?S: shrpenv="env LD\_RUN\_PATH=\$archlibexp/CORE"  
 ?S: or  
 ?S: shrpenv="  
 ?S: See the main perl Makefile.SH for actual working usage.  
 ?S:  
 ?S: Alternatively, we might be able to use a command line option such  
 ?S: as -R \$archlibexp/CORE (Solaris) or -Wl,-rpath  
 ?S: \$archlibexp/CORE (Linux).  
 ?S:.  
 ?S:ldlibpthname:  
 ?S: This variable holds the name of the shared library  
 ?S: search path, often LD\_LIBRARY\_PATH. To get an empty  
 ?S: string, the hints file must set this to 'none'.  
 ?S:.  
 ?T:shrpdir majonly majmin also xxx tmp\_shrpenv  
 ?X: metalint gets confused and thinks we're  
 actually setting LDOPTS  
 ?X: and LD\_RUN\_PATH.  
 ?LINT:extern LDOPTS  
 ?LINT:change LDOPTS  
 ?LINT:extern LD\_RUN\_PATH  
 ?LINT:change LD\_RUN\_PATH  
 ?LINT:change ccdlflags  
 ?LINT:extern maintloc maintname  
 ?Y:top  
 : Do we want a shared libperl?  
 also="  
 case "\$usedl" in  
 \$undef)  
 # No dynamic loading being used, so don't bother even to prompt.  
 useshrplib='false'  
 ;;  
 \*) case "\$useshrplib" in  
 ") case "\$osname" in  
 svr4\*)nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin\*)  
 dflt=y

```

also='Building a shared libperl is required for dynamic loading to work on your system.'
;;
*) dflt=n
;;
esac
;;
$define|true|[Yy]*)
dflt=y
;;
*) dflt=n
;;
esac
$cat << EOM

```

The perl executable is normally obtained by linking perlmain.c with libperl\${\_a}, any static extensions (usually just DynaLoader), and any other libraries needed on this system (such as -lm, etc.). Since your system supports dynamic loading, it is probably possible to build a shared libperl.\$so. If you will have more than one executable linked to libperl.\$so, this will significantly reduce the size of each executable, but it may have a noticeable effect on performance. The default is probably sensible for your system.

\$also

EOM

```

rp="Build a shared libperl.$so (y/n)"
./myread
case "$ans" in
true|$define|[Yy]*)
useshrplib='true' ;;
*) useshrplib='false' ;;
esac
;;
esac

case "$useshrplib" in
true)
case "$userelocatableinc" in
true|define)
echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
echo "See INSTALL for an explanation why that won't work." >&4
exit 4
;;
esac
case "$libperl" in
")
# Figure out a good name for libperl.so. Since it gets stored in

```

```

# a version-specific architecture-dependent library, the version
# number isn't really that important, except for making cc/ld happy.
#
# A name such as libperl.so.10.1
majmin="libperl.$so.$patchlevel.$subversion"
# A name such as libperl.so.100
majonly=`echo $patchlevel $subversion |
  $awk '{printf
"%d%02d", $1, $2}'`
majonly=libperl.$so.$majonly
# I'd prefer to keep the os-specific stuff here to a minimum, and
# rely on figuring it out from the naming of libc.
case "${osname}${osvers}" in
*linux*|gnu*) # ld won't link with a bare -lperl otherwise.
  dflt=libperl.$so
  ;;
cygwin*) # ld links now against the dll directly
  majmin="cygperl5_${patchlevel}_${subversion}.${so}"
  majonly=`echo $patchlevel $subversion |
  $awk '{printf "%03d%03d", $1, $2}'`
  majonly=cygperl5.$majonly.$so
  dflt=$majmin
  ;;
*) # Try to guess based on whether libc has major.minor.
  case "$libc" in
  *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
  *libc.$so.[0-9]*) dflt=$majonly ;;
  *) dflt=libperl.$so ;;
  esac
  ;;
esac
*) dflt=$libperl
  ;;
esac
cat << EOM

```

I need to select a good name for the shared libperl. If your system uses library names with major and minor numbers, then you might want something like \$majmin. Alternatively, if your system uses a single version number for shared libraries, then you might want to use \$majonly. Or, your system might be quite happy with a simple libperl.\$so.

Since the shared libperl will get installed into a version-specific architecture-dependent directory, the version number of the shared perl library probably isn't important, so the default should be o.k.

```

EOM
rp='What name do you want to give to the shared libperl?'
. ./myread
libperl=$ans
echo "Ok, I'll use $libperl"
;;
*)
libperl="libperl${_a}"
;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
") ;;
*) $cat >&4 <<EOM
WARNING: Use of the shrpdir variable for the installation location of
the shared $libperl is not supported. It was never documented and
will not work in this version. Let me (<$maintloc>)
know of any problems this may cause.

```

```

EOM
case "$shrpdir" in
"$sarchlibexp/CORE")
$cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.

```

```

EOM
;;
*)
$cat
>&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $sarchlibexp/CORE
that installperl will use.

```

```

EOM
;;
esac
;;
esac

```

```

# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH. The main perl makefile uses this.
shrpdir=$sarchlibexp/CORE
xxx=""
tmp_shrpenv=""
if "$suseshrplib"; then

```

```

    case "$osname" in
aix)
# We'll set it in Makefile.SH...
;;
solaris)
xxx="-R $shrpdir"
;;
freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
xxx="-Wl,-R$shrpdir"
;;
bsdos|linux|irix*|dec_osf|gnu*|haiku)
xxx="-Wl,-rpath,$shrpdir"
;;
hpux*)
# hpux doesn't like the default, either.
tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
;;
cygwin)
# cygwin needs only ldlibpth
;;
*)
tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
;;
esac
case "$xxx" in
") ;;
*)
# Only add $xxx if it isn't already in ccdlflags.
case
"$ccdlflags" in
*" $xxx "*) ;;
*) ccdlflags="$ccdlflags $xxx"
cat <<EOM >&4

```

Adding \$xxx to the flags  
passed to \$ld so that the perl executable will find the  
installed shared \$libperl.

```

EOM
;;
esac
;;
esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
# Makefile.SH takes care of this.)
case "$osname" in

```

```
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
") shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
") ldlibpthname=LD_LIBRARY_PATH ;;
none) ldlibpthname="" ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/libperl.U
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/C/fake/dup2.C
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Head.U,v \$  
?RCS: Revision 3.0.1.9 1997/02/28 15:02:09 ram  
?RCS: patch61: make sure we unset CDPATH for shells that support this  
?RCS: patch61: improved Korn shell detection and handling  
?RCS:  
?RCS: Revision 3.0.1.8 1995/07/25 13:40:02 ram  
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)  
?RCS: patch56: OS/2 platforms are using another path separator  
?RCS:  
?RCS: Revision 3.0.1.7 1995/03/21 08:46:15 ram  
?RCS: patch52: definition of  
paths wrongly added spurious '.' chars  
?RCS:  
?RCS: Revision 3.0.1.6 1994/10/29 15:54:19 ram  
?RCS: patch36: make sure ENV is unset before calling /bin/ksh  
?RCS:  
?RCS: Revision 3.0.1.5 1994/08/29 16:03:44 ram  
?RCS: patch32: now sets PATH only using existing directories  
?RCS:  
?RCS: Revision 3.0.1.4 1994/06/20 06:54:28 ram  
?RCS: patch30: now computes its invocation name into 'me'  
?RCS: patch30: symbol me is made visible to all units read-only  
?RCS:  
?RCS: Revision 3.0.1.3 1993/12/15 08:15:07 ram  
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386  
?RCS:  
?RCS: Revision 3.0.1.2 1993/11/10 17:32:35 ram  
?RCS: patch14: ensure PATH is reset to '.' before testing for alias  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/27 14:38:07 ram  
?RCS: patch7: not all 'test' programs support the -x option  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:04:58 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This is the very first unit in the Configure script. It is mostly just  
?X:  
things to keep people from getting into a tizzy right off the bat.  
?X:  
?MAKE:Head:  
?MAKE: -pick wipe \$@ %<  
?V:PATH p\_ \_exe me newsh  
?T:argv p paths OS2\_SHELL DJGPP  
?T:inksh needksh avoidksh newsh changesh reason  
?F:!\*



```
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
#!/bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
# $ git clone https://github.com/perl5-metaconfig/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
# $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
# to bleed). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:
```

```
# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig
```

```
cat >c1$$ <<EOF
ARGGGHHHH!!!!
```

SCO csh still thinks true is false. Write to SCO today and tell them that next year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place. Hmm. Hmmmmm. All we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]

```
EOF
cat >c2$$ <<EOF
```

```
OOPS! You naughty creature! You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF
```

```
true || cat c1$$ c2$$
true || exec sh $0 $argv:q
```

```
(exit
 $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$
```

```
if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
  cat <<EOF
  ***
  *** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
  *** Configure that well. (Plan 9 is close to UNIX but not close enough.)
  *** Please read the README.plan9 for further instructions.
  *** Cannot continue, aborting.
  ***
  EOF
  exit 1
fi
```

```
if test -f /sys/utilities/MultiView ; then
  # AmigaOS, test -c for /dev/null is not useful
  :
elif test ! -c /dev/null ; then
  cat <<EOF
  ***
  *** I'm sorry, but /dev/null appears to be a file rather than a device.
  *** Please consult your operating system's notes for making a device
```

```
*** in /dev.  
*** Cannot continue, aborting.  
***  
EOF  
exit 1  
fi
```

```
: compute my invocation name  
me=$0  
case "$0" in  
*/*)  
me=`echo $0 | sed -e 's!.*^\(.*\)!\1!' 2>/dev/null`  
test "$me" || me=$0  
;;  
esac
```

```
?X:  
?X: To be able to run under OS/2, we must detect that early enough to use  
?X: the proper path separator,  
stored in $p_. It is : on UNIX and ; on  
?X: DOS-ish systems such as OS/2.  
?X:  
: Proper separator for the PATH environment variable
```

```
p_=:  
: On OS/2 this directory should exist if this is not floppy only system ":-]"  
if test -d c:/ && ( (uname -a | grep -i 'os\(\|\)2' 2>&1) 2>&1 >/dev/null ; then  
if test -n "$OS2_SHELL"; then
```

```
p_=\;  
PATH=`cmd /c "echo %PATH%" | tr '\\\|' /`
```

```
?X: That's a bug in ksh5.22  
OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\|' / | tr '[A-Z]' '[a-z]`  
is_os2=yes  
elif test -n "$DJGPP"; then  
case "X${MACHTYPE:-nonesuchmach}" in  
*cygwin|*msys) ;;  
*) p_=\; ;;  
esac  
fi  
fi
```

```
?X:  
?X: There are two schools of thoughts here. Some people correctly argue that  
?X: the user has a better chance than we do of setting a reasonable PATH and  
?X: others argue that Configure is the best place there is to set up a suitable  
?X: PATH. Well, here we try to compromise by keeping the user's PATH and  
?X: appending some directories which are known to work on some machine or the  
?X:
```

other. The rationale behind this being that a novice user might not have a  
?X: proper environment variable set, and some directories like /etc (where  
?X: chown is located on some BSD systems) may be missing--RAM.

?X:

?X: SVR4 adds an /opt directory for optional packages. Some sites use

?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO

?X:

?X: We only add directories that are not already in the PATH of the

?X: user and the directories must exist also.

?X:

?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present

?X: and should be before /usr/ccs/bin, where the braindead bundled compiler

?X: can be found. The /usr/ccs/bin compiler cannot be used to build perl.

?X:

: Proper PATH setting

```
paths="/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
```

```
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
```

```
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
```

```
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
```

```
paths="$paths
```

```
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
```

```
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
```

```
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
```

```
paths="$paths /sbin /usr/sbin /usr/libexec"
```

```
paths="$paths /system/gnu_library/bin"
```

```
for p in $paths
```

```
do
```

```
case "$p_${PATH}$p_" in
```

```
*$p_${PATH}$p_*) ;;
```

```
*) test -d $p && PATH=${PATH}$p_$p ;;
```

```
esac
```

```
done
```

```
PATH=.$p_${PATH}
```

```
export PATH
```

: shall we be using ksh?

```
inksh=""
```

```
needksh=""
```

```
avoidksh=""
```

```
newsh=/bin/ksh
```

```
changesh=""
```

?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias

?X: builtin but not the -x option which is typically ksh...

?X: We need to set up PATH before calling the "alias" built-in since some

?X: systems like HP-UX have a binary called /bin/alias.

```
if (PATH=.; alias -x) >/dev/null 2>&1; then
```

```

    inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
    needksh='to avoid sh bug in "here document"
    expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
    if test X`/usr/bin/uname -v` = X4; then
        avoidksh="to avoid AIX 4's /bin/sh"
        newsh=/usr/bin/bsh
    fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
    if test X`/usr/bin/uname -s` = XOSF1; then
        avoidksh="to avoid Digital UNIX' ksh"
        newsh=/bin/sh
    fi
fi
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
    unset BIN_SH
fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
    ENV=""
    changesh=true
    reason="$needksh"
;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
    changesh=true
    reason="$avoidksh"
;;
esac
?X: Warn them if they
    use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
    cat <<EOM
(I see you are using the Korn shell. Some ksh's blow up on $me,
mainly on older exotic systems. If yours does, try the Bourne shell instead.)

```

EOM

```
;;
esac
case "$changesh" in
true)
export newsh
echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
case "$0" in
Configure|*/Configure) exec $newsh $0 "$@";;
*) exec $newsh Configure "$@";;
esac
;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash
in favor of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh
```

?X: Unset CDPATH to avoid surprises when using cd under some shells  
?X: Can't unset it because that's not portable to very old shells.  
?X: Can't set it to " because then bash 2.02 won't do "cd UU" --AD 6/98.  
?X: Don't want to set it to '.' because then ksh prints out the  
?X: name of the directory every time you cd to it. --AD 6/98  
?X: In order to inflict the least harm, change it only if it's set.  
: if needed, set CDPATH to a harmless value that is not chatty  
: avoid bash 2.02 problems with empty CDPATH.

```
case "$CDPATH" in
") ;;
*) case "$SHELL" in
*bash*) CDPATH='.' ;;
*) CDPATH="" ;;
esac
;;
esac
```

: Configure runs within the UU subdirectory

```
test -d UU || mkdir UU
```

?X: Use /\* to avoid any confirmation prompts from enhanced shells -- WED

```
cd UU && rm -f /*
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Head.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_drand48proto: Hasproto i\_stdlib i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_drand48proto:

?S: This variable conditionally defines the HAS\_DRAND48\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the drand48() function. Otherwise, it is

?S: up to the program to supply one.

?S:.

?C:HAS\_DRAND48\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the drand48() function. Otherwise, it is up

?C: to the program to supply one. A good guess

is

?C: extern double drand48(void);

?C:.

?H:#\$d\_drand48proto HAS\_DRAND48\_PROTO /\*\*/

?H:.

?LINT:set d\_drand48proto

: see if prototype for drand48 is available

echo " "

set d\_drand48proto drand48 \$i\_stdlib stdlib.h \$i\_unistd unistd.h

eval \$hasproto

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/d\_drand48proto.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: h\_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: h\_fcntl.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:12 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:h\_fcntl: Nothing  
?MAKE: -pick add \$@ %<  
?S:h\_fcntl:  
?S: This is variable gets set in various places to tell i\_fcntl that  
?S: <fcntl.h> should be included.  
?S:.  
: Initialize h\_fcntl  
h\_fcntl=false

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/h\_fcntl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1999 Jarkko Hietaniemi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \  
Setprefixvar prefix siteprefix html3dir sed  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?D:sitehtml3dir="  
?S:sitehtml3dir:  
?S: This variable contains the name of the directory in which site-specific  
?S: library html source pages are to be put. It is the responsibility of the  
?S: Makefile.SH to get the value of this into the proper command.  
?S: You must be prepared to do the ~name expansion yourself.  
?S: The standard distribution will put nothing in this directory.  
?S: After  
perl has been installed, users may install their own local  
?S: library html pages in this directory with  
?S: MakeMaker Makefile.PL  
?S: or equivalent. See INSTALL for details.



```

?S:.
?D:sitehtml3direxp="
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir="
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
"$sitehtml3dir" in
")  dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)  dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"| ") dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
./getfile
prefixvar=sitehtml3dir
./setprefixvar

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/sitehtml3dir.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: of the source tree for dist 4.0.
```

```

?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2 1993/10/16 13:48:04 ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:01:11 ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:44 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
?S: This variable conditionally defines the HAS_BCOPY
symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_bcopy.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

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?RCS:

?RCS: \$Log: d\_sighold.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:21 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_sighold: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_sighold:

?S: This variable conditionally defines HAS\_SIGHOLD if sighold() is

?S: available to hold signals.

?S:.

?C:HAS\_SIGHOLD:

?C: This symbol, if defined, indicates that the sighold routine is

?C: available to hold signals.

?C:.

?H:#\$d\_sighold HAS\_SIGHOLD /\*\*/

?H:.

?LINT:set d\_sighold

:

see if sighold exists

set sighold d\_sighold

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_sighold.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_truncl:

?S: This variable conditionally defines the HAS\_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS\_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d\_truncl HAS\_TRUNCL /\*\*/

?H:.

?LINT:set d\_truncl

```
: see if trunc1 exists
set trunc1 d_trunc1
eval $inlibc
```

Found in path(s):

```
*/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_trunc1.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sitearch.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 16:21:30 ram

?RCS: patch61: created

?RCS:

?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \

Oldconfig Prefixit prefix test archname sitelib

?MAKE: -pick add \$@ %<

?Y:TOP

?S:sitearch:

?S: This variable contains the eventual value of the SITEARCH symbol,

?S: which is the name of the private library for this package. It may

?S: have a ~ on the front. It is up to the makefile to eventually create

?S: this

directory while performing installation (with ~ substitution).

?S:.

?S:sitearchexp:

?S: This variable is the ~name expanded version of sitearch, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?S:installsitearch:

?S: This variable is really the same as sitearchexp but may differ on

?S: those systems using AFS. For extra portability, only this variable

?S: should be used in makefiles.

?S:.

?C:SITEARCH:

?C: This symbol contains the name of the private library for this package.

?C: The library is private in the sense that it needn't be in anyone's

?C: execution path, but it should be accessible by the world. The program

?C: should be prepared to do ~ expansion.

?C: The standard distribution will put nothing in this directory.

?C: Individual sites may place their own extensions and modules in

?C: this directory.

?C:.

?C:SITEARCH\_EXP:

?C: This symbol contains the ~name expanded version of SITEARCH, to be used

?C: in programs that are not prepared to deal

with ~ expansion at run-time.

?C:.

```
?H:#define SITEARCH "$sitearch" /**/
```

```
?H:#define SITEARCH_EXP "$sitearchexp" /**/
```

?H:.

?T:xxx

: determine where site specific architecture-dependent libraries go.

```
xxx=`echo $sitelib/$sarchname | sed 's!^$prefix!!`
```

: xxx is usually lib/site\_perl/archname.

```
set sitearch sitearch none
```

```
eval $prefixit
```

```
case "$sitearch" in
```

```
  ") dflt="$sitelib/$sarchname" ;;
```

```
  *) dflt="$sitearch" ;;
```

```
esac
```

```
$cat <<EOM
```

The installation process will also create a directory for architecture-dependent site-specific extensions and modules.

EOM

```
fn=nd~+
```

```
rp=Pathname for the site-specific architecture-dependent library files?
```

```
./getfile
```

```
if $test "X$sitearchexp" != "X$sansexp"; then
```

```
  installsitearch="
```

```
fi
```

```
sitearch="$ans"
```

```
sitearchexp="$sansexp"
```

```
if $afs; then
```

```
  $cat <<EOM
```

Since you are running AFS, I need to distinguish the directory in which private files reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

EOM

```
case
```

```
"$installsitearch" in
```

```
  ") dflt=`echo $sitearchexp | sed 's#^/afs/#afs/.#^`;;
```

```

*) dflt="$installsitearch";;
esac
fn=de~
rp='Where will private files be installed?'
./getfile
installsitearch="$ans"
else
installsitearch="$sitearchexp"
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sitearch.U

```

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```

?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:41:19 ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set. If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp

```

```

: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
echo " "
echo "Checking if your memcmp() can compare relative magnitude..." >&4
$cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
$cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
# include <memory.h>
#endif
#ifdef I_STDLIB
# include <stdlib.h>
#endif
#ifdef I_STRING
# include <string.h>
#else
# include <strings.h>
#endif
#ifdef I_UNISTD
# include <unistd.h> /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
exit(1);
exit(0);
}
EOCP
set try
if eval
$compile_ok; then
if $run ./try 2>/dev/null; then
echo "Yes, it can."
val="$define"
else
echo "No, it can't (it uses signed chars)."
fi
else

```

```
    echo "(I can't compile the test program, so we'll assume not...)"
fi
;;
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_sanemcmp.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_modfl d\_modflproto: Inlibc Compile Hasproto cat \  
test ccflags uselongdouble \  
d\_sqrtl d\_aintl d\_copysignl d\_ilogbl d\_scalbnl d\_frexp d\_ldexpl \  
d\_truncl

?MAKE: -pick add \$@ %<

?S:d\_modfl:

?S: This variable conditionally defines the HAS\_MODFL symbol, which

?S: indicates to the C program that the modfl() routine is available.

?S:.

?S:d\_modflproto:

?S: This symbol, if defined, indicates that the system provides

?S: a prototype for the modfl() function. Otherwise, it is up

?S: to the program to supply one. C99 says it should be

?S: long double modfl(long double, long double \*);

?S:.

?C:HAS\_MODFL:

?C: This symbol, if defined, indicates that the modfl routine is

?C: available to split a long double

x into a fractional part f and

?C: an integer part i such that  $|f| < 1.0$  and  $(f + i) = x$ .

?C:.

?C:HAS\_MODFL\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the modfl() function. Otherwise, it is up

?C: to the program to supply one.

?C:.

?H:#\$d\_modfl HAS\_MODFL /\*\*/

?H:#\$d\_modflproto HAS\_MODFL\_PROTO /\*\*/



```

?H:
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto

if $test "$uselongdouble" = "$define"; then
    message=""
    if $test "$d_sqrtl" != "$define"; then
        message="$message sqrtl"
    fi
    if $test "$d_modfl" != "$define"; then
        if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
            echo "You have both truncl and copysignl, so I can emulate modfl."
        else
            if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
                echo "You have both aintl
and copysignl, so I can emulate modfl."
            else
                message="$message modfl"
            fi
        fi
    fi
    if $test "$d_frexp" != "$define"; then
        if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
            echo "You have both ilogbl and scalbnl, so I can emulate frexp."
        else
            message="$message frexp"
        fi
    fi
    if $test "$d_ldexpl" != "$define"; then
        message="$message ldexpl"
    fi

    if $test "$message" != ""; then
$cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
*** the following mathematical functions needed for long double support:
*** $message

```

\*\*\* Please rerun Configure without -Duselongdouble and/or -Dusemorebits.

\*\*\* Cannot continue, aborting.

EOM

exit 1

fi

fi

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_modfl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: cppstdin.U,v \$

?RCS: Revision 3.0.1.4 1994/10/29 16:08:34 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.3 1994/01/24 14:05:38 ram

?RCS: patch16: comment for CPPLAST was missing

?RCS:

?RCS: Revision 3.0.1.2 1993/12/15 08:18:58 ram

?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free

?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:00:53 ram

?RCS: patch6:

remove wrapper when not actually used

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:38 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \

cpp +cc rm hint osname gccversion startsh eunicefix

?MAKE: -pick add \$@ %<

?S:cppstdin:

?S: This variable contains the command which will invoke the C

?S: preprocessor on standard input and put the output to stdout.

?S: It is primarily used by other Configure units that ask about

?S: preprocessor symbols.

?S:.

?S:cppminus:

?S: This variable contains the second part of the string which will invoke

?S: the C preprocessor on the standard input and produce to standard

?S: output. This variable will have the value "-" if cppstd in needs

?S: a minus to specify standard input, otherwise the value is "".

?S:.

?S:cpprun:

?S: This variable contains the command which will invoke a C preprocessor

?S: on standard input and put the output to stdout. It is guaranteed not

?S: to be a wrapper

and may be a null string if no preprocessor can be

?S: made directly available. This preprocessor might be different from the

?S: one used by the C compiler. Don't forget to append cpplast after the

?S: preprocessor options.

?S:.

?S:cpplast:

?S: This variable has the same functionality as cppminus, only it applies to

?S: cpprun and not cppstd in.

?S:.

?C:CPPSTDIN:

?C: This symbol contains the first part of the string which will invoke

?C: the C preprocessor on the standard input and produce to standard

?C: output. Typical value of "cc -E" or "/lib/cpp", but it can also

?C: call a wrapper. See CPPRUN.

?C:.

?C:CPPMINUS:

?C: This symbol contains the second part of the string which will invoke

?C: the C preprocessor on the standard input and produce to standard

?C: output. This symbol will have the value "-" if CPPSTDIN needs a minus

?C: to specify standard input, otherwise the value is "".

?C:.

?C:CPPRUN:

?C: This symbol contains the string which will invoke a C preprocessor on

?C: the

standard input and produce to standard output. It needs to end

?C: with CPPLAST, after all other preprocessor flags have been specified.

?C: The main difference with CPPSTDIN is that this program will never be a

?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is

?C: available directly to the user. Note that it may well be different from

?C: the preprocessor used to compile the C program.

?C:.

?C:CPPLAST:

?C: This symbol is intended to be used along with CPPRUN in the same manner

?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".

?C:.

```

?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
then
echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
echo 'cat >.$$.c; rm -f .$$.u; ""$cc"" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
test -s .$$.u && \
awk """"$2 ~ /\.h$/ { print "# 0 \\""$2"\\""" }"""" .$$.u; \
rm -f .$$.o .$$.u; ""$cc"" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
echo 'cat >.$$.c; ""$cc"" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
$cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
echo "You used to use

```

```

$cppstdin $cppminus so we'll use that again."
case "$cpprun" in
*) echo "But let's see if we can live without a wrapper..." ;;
*)
if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
  echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
  ok='true'
else
  echo "(However, $cpprun $cpplast does not work, let's see...)"
fi
;;
esac
else
case "$cppstdin" in
") ;;
*)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
esac
fi

if $ok; then
: nothing
elif echo 'Maybe ""$cc" -E" will work...'; \
  $cc -E <testcpp.c >testcpp.out 2>&1; \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "Yup, it does."
  x_cpp="$cc -E"
  x_minus="";
elif echo 'Nope...maybe ""$cc" -E -" will work...'; \
  $cc -E - <testcpp.c >testcpp.out 2>&1; \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "Yup, it does."
  x_cpp="$cc -E"
  x_minus='-';
elif echo 'Nope...maybe ""$cc"
-P" will work...'; \
  $cc -P <testcpp.c >testcpp.out 2>&1; \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "Yipee, that works!"
  x_cpp="$cc -P"
  x_minus="";
elif echo 'Nope...maybe ""$cc" -P -" will work...'; \
  $cc -P - <testcpp.c >testcpp.out 2>&1; \
  $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "At long last!"

```

```

x_cpp="$cc -P"
x_minus='-';
elif echo 'No such luck, maybe "$cpp" will work...'; \
$cpp <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "It works!"
x_cpp="$cpp"
x_minus="";
elif echo 'Nixed again...maybe "$cpp" -" will work...'; \
$cpp - <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "Hooray, it works! I was beginning to wonder."
x_cpp="$cpp"
x_minus='-';
elif echo 'Uh-uh. Time to get fancy. Trying a wrapper...'; \
$wrapper <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
x_cpp="$wrapper"
x_minus="
echo
"Eureka!"
else
dflt="
rp="No dice. I can't find a C preprocessor. Name one:"
./myread
x_cpp="$ans"
x_minus="
$x_cpp <testcpp.c >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
echo "OK, that will do." >&4
else
echo "Sorry, I can't get that to work. Go find one and rerun Configure." >&4
exit 1
fi
fi

case "$ok" in
false)
cppstdin="$x_cpp"
cppminus="$x_minus"
cpprun="$x_cpp"
cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:

```

```

set X $x_cpp
shift
case "$1" in
"$cpp")
echo "Perhaps can we force $cc -E using a wrapper..."
if $wrapper <testcpp.c >testcpp.out 2>&1; \
$contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
echo "Yup, we can."
cppstdin="$wrapper"
cppminus=";
else
echo
"Nope, we'll have to live without it..."
fi
;;
esac
case "$cpprun" in
"$wrapper")
cpprun="
cpplast="
;;
esac
;;
esac

```

```

case "$cppstdin" in
"$wrapper"|"cppstdin") ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/cppstdin.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getnetent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getnetent\_r getnetent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getnetent\_r:  
 ?S: This variable conditionally defines the HAS\_GETNETENT\_R symbol,  
 ?S: which indicates to the C program that the getnetent\_r()  
 ?S: routine is available.  
 ?S:.  
 ?S:getnetent\_r\_proto:  
 ?S: This variable encodes the prototype of getnetent\_r.  
 ?S: It is zero if d\_getnetent\_r is undef, and one of the  
 ?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getnetent\_r  
 ?S: is defined.  
 ?S:.  
 ?C:HAS\_GETNETENT\_R:  
 ?C: This symbol, if defined, indicates that the getnetent\_r routine  
 ?C: is  
 available to getnetent re-entrantly.  
 ?C:.  
 ?C:GETNETENT\_R\_PROTO:  
 ?C: This symbol encodes the prototype of getnetent\_r.  
 ?C: It is zero if d\_getnetent\_r is undef, and one of the  
 ?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getnetent\_r  
 ?C: is defined.  
 ?C:.  
 ?H:#\$d\_getnetent\_r HAS\_GETNETENT\_R /\*\*/  
 ?H:#define GETNETENT\_R\_PROTO \$getnetent\_r\_proto /\*\*/  
 ?H:.  
 ?T:try hdrs d\_getnetent\_r\_proto  
 : see if getnetent\_r exists  
 set getnetent\_r d\_getnetent\_r  
 eval \$inlibc  
 case "\$d\_getnetent\_r" in  
 "\$define")  
 hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_netdb netdb.h"  
 case "\$d\_getnetent\_r\_proto:\$usetthreads" in  
 ":define") d\_getnetent\_r\_proto=define  
 set d\_getnetent\_r\_proto getnetent\_r \$hdrs  
 eval \$hasproto ;;  
 \*) ;;  
 esac  
 case "\$d\_getnetent\_r\_proto" in  
 define)  
 case "\$getnetent\_r\_proto" in  
 "|0) try='int getnetent\_r(struct netent\*, char\*, size\_t, struct netent\*\*, int\*);'  
 ./protochk "\$extern\_C \$try" \$hdrs && getnetent\_r\_proto=I\_SBWRE ;;  
 esac  
 case "\$getnetent\_r\_proto" in  
 "|0) try='int getnetent\_r(struct  
 netent\*, char\*, int, int\*);'  
 ./protochk "\$extern\_C \$try" \$hdrs && getnetent\_r\_proto=I\_SBIE ;;



```

esac
case "$getnetent_r_proto" in
"|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
esac
case "$getnetent_r_proto" in
"|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
esac
case "$getnetent_r_proto" in
"|0) try='int getnetent_r(struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
esac
case "$getnetent_r_proto" in
"|0) try='int getnetent_r(struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
esac
case "$getnetent_r_proto" in
"|0) d_getnetent_r=undef
getnetent_r_proto=0
echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
*) case "$getnetent_r_proto" in
REENTRANT_PROTO*) ;;
*) getnetent_r_proto="REENTRANT_PROTO_${getnetent_r_proto}"
;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susethreads" in
define) echo "getnetent_r has no prototype, not using it." >&4 ;;
esac
d_getnetent_r=undef
getnetent_r_proto=0
;;
esac
;;
*) getnetent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getnetent\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

```

?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function. Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function. Otherwise, it is up
?C: to the program to supply one. Good guesses are
?C: extern
int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_sresuproto.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:51 ram

```

?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:inc incexp: Loc Oldconfig Getfile us rinc  
?MAKE: -pick add \$@ %<  
?S:inc:  
?S: This variable holds the name of the directory in which the user wants  
?S: to put public header files for the package in question. It is most  
?S: often a local directory such as /usr/local/include.  
?S:.  
?S:incexp:  
?S: This is the same as the inc variable, but is filename  
expanded  
?S: at configuration time for convenient use in your makefiles.  
?S:.

```
: determine where public header files go
case "$inc" in
")
dflt=`./loc . ." /usr/local/include /usr/include/local $usrinc`
;;
*) dflt="$inc"
;;
esac
fn=d~
rp="Where do you want to put the public header files?"
./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/inc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_mkttime.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_mkttime.U,v \$  
?RCS: Revision 3.0.1.1 1994/08/29 16:09:44 ram  
?RCS: patch32: created by ADO

?RCS:  
?MAKE:d\_mktime: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mktime:  
?S: This variable conditionally defines the HAS\_MKTIME symbol, which  
?S: indicates to the C program that the mktime() routine is available.  
?S:.  
?C:HAS\_MKTIME :  
?C: This symbol, if defined, indicates that the mktime routine  
is  
?C: available.  
?C:.  
?H:#\$d\_mktime HAS\_MKTIME /\*\*/  
?H:.  
?LINT:set d\_mktime  
: see if mktime exists  
set mktime d\_mktime  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_mktime.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2017, Karl Williamson  
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?RCS: You may redistribute only under the terms of the Artistic License,  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:i\_wchar: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_wchar:  
?S: This variable conditionally defines the I\_WCHAR symbol,  
?S: that indicates whether a C program may include <wchar.h>.  
?S:.  
?C:I\_WCHAR:  
?C: This symbol, if defined, indicates to the C program that <wchar.h>  
?C: is available for inclusion  
?C:.  
?H:#\$i\_wchar I\_WCHAR /\*\*/  
?H:.  
?LINT:set i\_wchar  
: see if wchar.h is present

```
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i_wchar.U
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_unordered: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_unordered:

?S: This variable conditionally defines the HAS\_UNORDERED symbol, which

?S: indicates to the C program that the unordered() routine is available.

?S:.

?C:HAS\_UNORDERED:

?C: This symbol, if defined, indicates that the unordered routine is

?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)

?C:.

?H:#\$d\_unordered HAS\_UNORDERED /\*\*/

?H:.

?LINT:set d\_unordered

: see if unordered exists

set unordered d\_unordered

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_unordered.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: ccflags.U,v \$  
?RCS: Revision 3.0.1.9 1997/02/28 15:27:07 ram  
?RCS: patch61: removed support for NO\_PROTOTYPE detection on SCO  
?RCS: patch61: new locincpth variable  
?RCS: patch61: added info on the "additional ld flags" question  
?RCS:  
?RCS: Revision 3.0.1.8 1995/07/25 13:48:54 ram  
?RCS: patch56: re-arranged compile line to include ldflags before objects  
?RCS:  
?RCS: Revision 3.0.1.7 1995/05/12 12:08:33 ram  
?RCS: patch54: now checks for cc/ccflags/ldflags coherency  
?RCS:  
?RCS: Revision 3.0.1.6  
1994/10/29 16:07:02 ram  
?RCS: patch36: gcc versioning no longer relies on the C compiler's name  
?RCS: patch36: simplified check for gcc version checking (ADO)  
?RCS:  
?RCS: Revision 3.0.1.5 1994/08/29 16:06:35 ram  
?RCS: patch32: propagate -posix flag from ccflags to ldflags  
?RCS:  
?RCS: Revision 3.0.1.4 1994/05/06 14:28:45 ram  
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)  
?RCS: patch23: cppflags now computed on an option-by-option basis  
?RCS: patch23: magically added cc flags now only done the first time  
?RCS:  
?RCS: Revision 3.0.1.3 1993/09/13 15:58:29 ram  
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)  
?RCS: patch10: removed all the "tans" variable usage (WAD)  
?RCS:  
?RCS: Revision 3.0.1.2 1993/08/27 14:39:38 ram  
?RCS: patch7: added support for OSF/1 machines  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:00:24 ram  
?RCS: patch6: added defaults for cppflags, ccflags and ldflags  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:31 ram  
?RCS:  
Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \  
Myread Guess Options Oldconfig gccversion mips\_type +usrinc \  
package contains rm rm\_try +cc cppstdin cppminus cprun cpplast libpth \  
loclibpth hint  
?MAKE: -pick add \$@ %<  
?S:ccflags:  
?S: This variable contains any additional C compiler flags desired by  
?S: the user. It is up to the Makefile to use this.  
?S:.

```

?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user. It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired by
?S: the user. It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
variable contains a list of additional directories to be
?S: searched by the compiler. The appropriate -I directives will
?S: be added to ccflags. This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=""
?D:ccflags=""
?D:ldflags=""
?D:optimize=""
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=""
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
'|$undef) dflt='none';;
")
case "$gccversion" in
") dflt='-O';;
*) dflt='-O2 -g';;
esac
;;
*)

```

```

dflt="$optimize";;
esac
case "$gccversion" in
*) $cat <<EOH

```

Some C compilers have problems with their optimizers. By default, \$package compiles with the -O flag to use the optimizer. Alternately, you might want to use the symbolic debugger, which uses the -g flag (on traditional Unix systems). Either flag can be specified here. To use neither flag, specify the word "none".

```

EOH
;;
*) $cat <<EOH

```

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to be able to reasonably optimize, whilst retaining the ability to use a symbolic debugger. Either flag can be specified here. To use neither flag, specify the word "none".

```

EOH
;;
esac
rp="What optimizer/debugger flag should be used?"
./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

```

```

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
case "$gccversion" in
1*) dflt='-fpcc-struct-return' ;;
esac
?X:
check for POSIXized ISC
case "$gccversion" in
2*) if test -d /etc/conf/kconfig.d &&
$contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
then
dflt="$dflt -posix"
fi
;;
esac

```



```
?X: turn warnings on if they're using gcc
case "$gccversion" in
1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
*) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
esac
;;
esac
```

```
?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*) inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
if $test -d $thisincl; then
if $test x$thisincl != x$usrinc; then
case "$dflt" in
*$thisincl*);;
*) dflt="$dflt -I$thisincl";;
esac
fi
fi
done
```

```
?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
xxx=true;
else
xxx=false;
fi;
if
$xxx; then
case "$dflt" in
*$2*);;
*) dflt="$dflt -D$2";;
esac;
fi'
```

```
?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
?X:
if ./osf1; then
set signal.h __LANGUAGE_C__; eval $inctest
else
set signal.h LANGUAGE_C; eval $inctest
```

fi

```
case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac
```

```
case "$dflt" in
'| ') dflt=none;;
esac
$cat <<EOH
```

Your C compiler may want other flags. For this question you should include -I/whatever and -DWHATEVER flags and any other flags used by the C compiler, but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

```
EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac
```

: the following weeds options from ccflags that are of no interest to cpp

```
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNU__"
esac
case "$mips_type" in
");;
*BSD*)
cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
echo " "
echo "Let me guess what the preprocessor flags are..." >&4
set X $cppflags
shift
cppflags="
```

```

$cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
previous=""
for flag in $*
do
case "$flag" in
-*) ftry="$flag";;
*) ftry="$previous $flag";;
esac
if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
>cpp1.out 2>/dev/null && \
$cpprun -DLFRULB=bar $ftry $cppplast <cpp.c \
>cpp2.out 2>/dev/null && \
$contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
$contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
then
cppflags="$cppflags $ftry"
previous=""
else
previous="$flag"
fi
done
set X $cppflags
shift
cppflags=${1+"$@"}
case "$cppflags"
in
*~*) echo "They appear to be: $cppflags";;
esac
$rm -f cpp.c cpp?.out
;;
esac

: flags used in final linking phase
case "$ldflags" in
") if ./venix; then
dflt='-i -z'
else
dflt=""
fi

```

```

case "$ccflags" in
*_posix*) dflt="$dflt -posix" ;;
esac
;;
*) dflt="$ldflags";;
esac

```

: Try to guess additional flags to pick up local libraries.

```

for thislibdir in $libpth; do
case " $loclibpth " in
*" $thislibdir ")
case "$dflt " in
*" -L$thislibdir ") ;;
*) dflt="$dflt -L$thislibdir" ;;
esac
;;
esac
done

```

```

case "$dflt" in
") dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

```

\$cat <<EOH

Your C linker may need flags. For this question you should include -L/whatever and any other flags used by the C linker, but you should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker does not normally search all of the directories you specified above, namely

\$libpth

To use no flags, specify the word "none".

EOH

```

rp="Any
additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags="";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

```

@if lkflags

```

: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
") dflt='none';;
*) dflt="$ldflags";;
esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong. Try to
?X: compile and run a simple test program. Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
with:

$*
./try

```

and I got the following output:

```

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...

```

```

if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
if sh -c './try' >>try.msg 2>&1; then
  dflt=n
else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem. Shall I abort Configure"
  dflt=y
fi
else
  echo "I can't compile the test program." >>try.msg
  rp="You have a BIG problem. Shall I abort Configure"
  dflt=y
fi
case "$dflt" in
y)
  $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
  case "$knowitall" in
  ")
    echo "(The supplied flags might be incorrect with this C compiler.)"
    ;;
  *)
    dflt=n;;
  esac
  echo " "
  . ./myread
  case "$ans" in
  n*[N*]) ;;
  *) echo "Ok. Stopping Configure." >&4
    exit 1
    ;;
  esac
  ;;
n) echo "OK, that should do.";;
  esac
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/ccflags.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: dftime.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_ftime.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:06 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_ftime d\_gettimeod: Inlibc Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_ftime:  
?S: This variable conditionally defines the HAS\_FTIME symbol, which indicates  
?S: that the ftime() routine exists. The ftime() routine is basically  
?S: a sub-second accuracy clock.  
?S:.  
?S:d\_gettimeod:  
?S: This variable conditionally defines the HAS\_GETTIMEOFDAY symbol,  
which  
?S: indicates that the gettimeofday() system call exists (to obtain a  
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.  
?S:.  
?C:HAS\_FTIME (FTIMER):  
?C: This symbol, if defined, indicates that the ftime() routine exists.  
?C: It is basically a sub-second accuracy clock, but is less accurate  
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to  
?C: refer to "struct timeb".  
?C:.  
?C:HAS\_GETTIMEOFDAY (GETTIMEOFDAY):  
?C: This symbol, if defined, indicates that the gettimeofday() system  
?C: call is available for a sub-second accuracy clock. Usually, the file  
?C: <sys/resource.h> needs to be included (see I\_SYS\_RESOURCE).  
?C: The type "Timeval" should be used to refer to "struct timeval".  
?C:.  
?H:#\$d\_ftime HAS\_FTIME /\*\*/  
?H:#\$d\_gettimeod HAS\_GETTIMEOFDAY /\*\*/  
?H:%<:@if HAS\_FTIME  
?H:%<:#ifdef HAS\_FTIME  
?H:%<:#define Timeval struct timeb /\* Structure used by ftime() \*/  
?H:%<:#endif  
?H:%<:@end  
?H:%<:@if HAS\_GETTIMEOFDAY  
?H:%<:#ifdef HAS\_GETTIMEOFDAY  
?H:%<:#define  
Timeval struct timeval /\* Structure used by gettimeofday() \*/  
?H:%<:#endif  
?H:%<:@end  
?H:.  
?X:FIXME

```

?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
set ftime d_ftime
eval $inlibc
;;
*)
val="$undef"; set d_ftime; eval $setvar
;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
echo " "
echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_ftime.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.

```



?S:  
?C:HAS\_MKSTEMP :  
?C: This symbol, if defined, indicates that the mkstemp routine is  
?C: available to exclusively create and open a uniquely named  
?C: temporary file.  
?C:.  
?H:#\$d\_mkstemp HAS\_MKSTEMP /\*\*/  
?H:.  
?LINT:set d\_mkstemp  
: see if mkstemp exists  
set mkstemp d\_mkstemp  
eval  
\$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_mkstemp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1999, Jarkko Hietaniemi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:fflushNULL fflushall: Compile cat rm rm\_try test osname run to from \  
Oldconfig Myread Setvar echo targethost \  
d\_sysconf i\_unistd d\_stdio\_stream\_array stdio\_stream\_array i\_stdlib  
?MAKE: -pick add \$@ %<  
?S:fflushNULL:  
?S: This symbol, if defined, tells that fflush(NULL) correctly  
?S: flushes all pending stdio output without side effects. In  
?S: particular, on some platforms calling fflush(NULL) \*still\*  
?S: corrupts STDIN if it is a pipe.  
?S:.  
?S:fflushall:  
?S: This symbol, if defined, tells that to flush  
?S: all  
pending stdio output one must loop through all  
?S: the stdio file handles stored in an array and fflush them.  
?S: Note that if fflushNULL is defined, fflushall will not  
?S: even be probed for and will be left undefined.  
?S:.  
?C:FFLUSH\_NULL:

?C: This symbol, if defined, tells that fflush(NULL) correctly  
?C: flushes all pending stdio output without side effects. In  
?C: particular, on some platforms calling fflush(NULL) \*still\*  
?C: corrupts STDIN if it is a pipe.

?C:.

?C:FFLUSH\_ALL:

?C: This symbol, if defined, tells that to flush

?C: all pending stdio output one must loop through all

?C: the stdio file handles stored in an array and fflush them.

?C: Note that if fflushNULL is defined, fflushall will not

?C: even be probed for and will be left undefined.

?C:.

?H:#\$fflushNULL FFLUSH\_NULL /\*\*/

?H:#\$fflushall FFLUSH\_ALL /\*\*/

?H:.

?T:output code

?F:!try.out !try !tryp

: Check how to flush

echo " "

\$cat >&4 <<EOM

Checking how to flush all pending stdio output...

EOM

# I only know how to find

the first 32 possibly open files on SunOS.

# See also hints/sunos\_4\_1.sh and util.c --AD

case "\$osname" in

sunos) \$echo '#define PERL\_FFLUSH\_ALL\_FOPEN\_MAX 32' > try.c ;;

esac

\$cat >>try.c <<EOCP

#include <stdio.h>

#\$i\_stdlib I\_STDLIB

#ifdef I\_STDLIB

#include <stdlib.h>

#endif

#\$i\_unistd I\_UNISTD

#ifdef I\_UNISTD

# include <unistd.h>

#endif

#\$d\_sysconf HAS\_SYSCONF

#\$d\_stdio\_stream\_array HAS\_STDIO\_STREAM\_ARRAY

#ifdef HAS\_STDIO\_STREAM\_ARRAY

# define STDIO\_STREAM\_ARRAY \$stdio\_stream\_array

#endif

int main() {

FILE\* p;

unlink("try.out");

p = fopen("try.out", "w");

#ifdef TRY\_FPUTC

```

fputc('x', p);
#else
# ifdef TRY_FPRINTF
    fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
    fflush(NULL);
#endif
#ifdef TRY_FFLUSH_ALL
    {
        long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
        open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
# if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
        open_max = sysconf(_SC_OPEN_MAX);
# else
# if defined(FOPEN_MAX)
        open_max = FOPEN_MAX;
# else
#
        #ifdef OPEN_MAX
            open_max = OPEN_MAX;
# else
# if defined(_NFILE)
            open_max = _NFILE;
# endif
# endif
# endif
# endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
    if (open_max > 0) {
        long i;
        for (i = 0; i < open_max; i++)
            if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
                STDIO_STREAM_ARRAY[i]._file < open_max &&
                STDIO_STREAM_ARRAY[i]._flag)
                fflush(&STDIO_STREAM_ARRAY[i]);
    }
}
#endif
#endif
    _exit(42);
}
EOCP
: first we have to find out how _not_ to flush

```

```

$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
  output="
  set try -DTRY_FPUTC
  if eval $compile; then
    $run ./try 2>/dev/null
    code="$?"
    $from try.out
    if $test ! -s try.out -a "X$code" = X42; then
output=-DTRY_FPUTC
    fi
  fi
  case "$output" in
  ")
    set try -DTRY_FPRINTF
    if eval $compile; then
      $run ./try 2>/dev/null
      code="$?"
      $from try.out
      if $test ! -s try.out -a "X$code" = X42; then
output=-DTRY_FPRINTF

    fi
    fi
  ;;
  esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
") set try -DTRY_FFLUSH_NULL $output
  if eval $compile; then
    $run ./try 2>/dev/null
    code="$?"
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
      fflushNULL="$cat try.out`"
    else
      if $test "X$code" != X42; then
        $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
    fi
  fi
fi
$rm -f core try.core core.try.*
case "$fflushNULL" in
x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.

```

Let's see if it clobbers input pipes...

EOM

```
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes. So we avoid the
# autoflush on fork/system/exec support for now. :-(
```

```
$cat >tryp.c <<EOCP
```

```
#include <stdio.h>
```

```
int
```

```
main(int argc, char **argv)
```

```
{
```

```
    char buf[1024];
```

```
    int i;
```

```
    char *bp = buf;
```

```
    while (1) {
```

```
while ((i = getc(stdin)) != -1
```

```
    && (*bp++ = i) != '\n'
```

```
    && bp < &buf[1024])
```

```
/* DO NOTHING */;
```

```
*bp = '\0';
```

```
fprintf(stdout, "%s", buf);
```

```
fflush(NULL);
```

```
if (i == -1)
```

```
    return 0;
```

```
bp = buf;
```

```
    }
```

```
}
```

```
EOCP
```

```
fflushNULL="$define"
```

```
set tryp
```

```
if eval $compile; then
```

```
    $rm -f tryp.out
```

```
    # Copy the .c file to the remote host ($to is an ssh-like if targethost is set)
```

```
    if $test "X$targethost" != X; then
```

```
        $to tryp.c
```

```
        $to tryp
```

```
        $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
```

```
    else
```

```
        $cat tryp.c | $run ./tryp 2>/dev/null > tryp.out
```

```
    fi
```

```
    if cmp tryp.c tryp.out >/dev/null 2>&1; then
```

```
        $cat >&4 <<EOM
```

```
fflush(NULL) seems to behave okay with input streams.
```

```
EOM
```

```
fflushNULL="$define"
```

```
else
```

```
$cat >&4 <<EOM
```

```
Ouch, fflush(NULL) clobbers input pipes! We will not use it.
```

EOM

```
fflushNULL="$undef"  
fi  
fi  
$rm -f core tryp.c tryp.core core.tryp.*  
;;  
) $cat >&4 <<EOM
```

Your fflush(NULL) isn't working (contrary to ANSI C).

EOM

```
fflushNULL="$undef"  
;;  
*) $cat >&4 <<EOM
```

Cannot figure out whether  
your fflush(NULL) works or not.

I'm assuming it doesn't (contrary to ANSI C).

EOM

```
fflushNULL="$undef"  
;;  
esac  
;;  
$define|true|[yY]*)  
fflushNULL="$define"  
;;  
*)  
fflushNULL="$undef"  
;;  
esac
```

: check explicit looping only if NULL did not work, and if the pipe

: bug does not show up on an explicit flush too

case "\$fflushNULL" in

"\$undef")

```
$cat >tryp.c <<EOCP
```

```
#include <stdio.h>
```

```
int
```

```
main(int argc, char **argv)
```

```
{
```

```
    char buf[1024];
```

```
    int i;
```

```
    char *bp = buf;
```

```
    while (1) {
```

```
while ((i = getc(stdin)) != -1
```

```
    && (*bp++ = i) != '\n'
```

```
    && bp < &buf[1024])
```

```
/* DO NOTHING */;
```

```
*bp = '\0';
```

```
fprintf(stdout, "%s", buf);
```

```
fflush(stdin);
```

```
if (i == -1)
```

```

    return 0;
bp = buf;
}
}
EOCP
set tryp
if eval $compile; then
    $rm -f tryp.out
    if $test "X$targethost" != X; then
    $to tryp.c
    $to tryp
    $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
    else
    $cat tryp.c | $run ./tryp 2>/dev/null > tryp.out
    fi
    if cmp tryp.c tryp.out >/dev/null 2>&1;
then
    $cat >&4 <<EOM

```

Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.

EOM

```

: now check for fflush behaviour
case "$fflushall" in
") set try -DTRY_FFLUSH_ALL $output
if eval $compile; then
    $cat >&4 <<EOM

```

(Now testing the other method--but note that this also may fail.)

EOM

```

    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
        fflushall="$cat try.out`"
    fi
fi
$rm_try
case "$fflushall" in
x) $cat >&4 <<EOM

```

Whew. Flushing explicitly all the stdio streams works.

EOM

```

    fflushall="$define"
    ;;
") $cat >&4 <<EOM

```

Sigh. Flushing explicitly all the stdio streams doesn't work.

EOM

```

    fflushall="$undef"
    ;;
*) $cat >&4 <<EOM

```

Cannot figure out whether flushing stdio streams explicitly works or not.

I'm assuming it doesn't.

EOM

```
fflushall="$Sundef"
;;
esac
;;
"$define"|true[[yY]*)
fflushall="$define"
;;
*)
fflushall="$Sundef"
;;
esac
```

else

```
$cat >&4 <<EOM
```

All is futile. Even fflush(stdin) clobbers input pipes!

EOM

```
fflushall="$Sundef"
fi
else
fflushall="$Sundef"
fi
$rm -f core tryp.c tryp.core core.tryp.*
;;
*) fflushall="$Sundef"
;;
esac
```

```
case "$fflushNULL$fflushall" in
```

```
undefundef)
```

```
$cat <<EOM
```

OK, I give up. I cannot figure out how to flush pending stdio output.

We won't be flushing handles at all before fork/exec/popen.

EOM

```
;;
esac
$rm_try tryp
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/fflushall.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:



?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_volatile.U,v \$  
?RCS: Revision 3.0.1.2 1995/07/25 14:08:49 ram  
?RCS: patch56: made cc and ccflags optional dependencies  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/09 11:49:51 ram  
?RCS: patch9: volatile definition was swapped over with undef  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:07:57 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_volatile: cat +cc +ccflags rm\_try Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_volatile:  
?S: This variable conditionally defines the HASVOLATILE symbol, which  
?S: indicates  
to the C program that this C compiler knows about the  
?S: volatile declaration.  
?S:.  
?C:HASVOLATILE ~ %<:  
?C: This symbol, if defined, indicates that this C compiler knows about  
?C: the volatile declaration.  
?C:.  
?H:?%<:#\$d\_volatile HASVOLATILE /\*\*/  
?H:?%<:#ifndef HASVOLATILE  
?H:?%<:#define volatile  
?H:?%<:#endif  
?H:.  
?W:%<:volatile  
?LINT:set d\_volatile  
?LINT:known volatile  
: check for volatile keyword  
echo " "  
echo 'Checking to see if your C compiler knows about "volatile"...' >&4  
\$cat >try.c <<'EOCP'  
int main()  
{  
?X:  
?X: The following seven lines added by Bill Campbell <billc@sierra.com>  
?X: detect that MIPS compilers do not handle volatile in all situations.  
?X:  
typedef struct \_goo\_struct goo\_struct;  
goo\_struct \* volatile goo = ((goo\_struct \*)0);

```
struct _goo_struct {
    long long_int;
    int reg_int;
    char char_var;
};
typedef unsigned short foo_t;
char *volatile foo;
volatile int bar;
volatile foo_t blech;
foo = foo;
}
```

EOCP

```
if $cc -c $ccflags try.c >/dev/null
2>&1 ; then
val="$define"
echo "Yup, it does."
else
val="$undef"
echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_volatile.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0 1993/08/18 12:04:46 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
```

```
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
"$define") i_whoami="$undef" ;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Chk_whoami.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_bzero.U,v $
```

```
?RCS: Revision 3.0.1.2 1993/10/16 13:48:15 ram
```

```
?RCS: patch12: added magic support for bzero()
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.1 1993/09/13 16:01:33 ram
```

```
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:05:46 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_bzero: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_bzero:
```

```
?S: This variable conditionally defines the HAS_BZERO
symbol if
```

```
?S: the bzero() routine is available to set memory to 0.
```

```
?S:.
```

```
?C:HAS_BZERO:
```

```
?C: This symbol is defined if the bzero() routine is available to
```

```
?C: set a memory block to 0.
```

```
?C:.
```

```
?H:#$d_bzero HAS_BZERO /**/
```

```
?H:.
```

```
?M:bzero: HAS_BZERO
```

```
?M:#ifndef HAS_BZERO
```

```
?M:#ifndef bzero
```

```
?M:#define bzero(s,l) memset((s),0,(l))
```

```
?M:#endif
?M:#endif
?M:.
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_bzero.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:25 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
?S: indicates that the setitimer() routine exists. The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
?C: that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

5.32.1~rc1/dist/U/d\_itimer.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Config\_h.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Config\_h.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 14:57:43 ram

?RCS: patch61: added support for src.U

?RCS:

?RCS: Revision 3.0.1.4 1995/09/25 09:10:49 ram

?RCS: patch59: commented the purpose of the #un-def directive

?RCS:

?RCS: Revision 3.0.1.3 1995/01/30 14:25:39 ram

?RCS: patch49: typo fixes in leading config.h comment (WED)

?RCS:

?RCS: Revision 3.0.1.2 1993/08/24 12:13:20 ram

?RCS: patch3: added TOP as a local shell temporary variable

?RCS:

?RCS:

Revision 3.0.1.1 1993/08/19 06:42:20 ram

?RCS: patch1: leading config.sh searching was not aborting properly

?RCS:

?RCS: Revision 3.0 1993/08/18 12:04:47 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This file ends up producing the config\_h.SH script, which is run to produce

?X: the config.h file. The file ./Config\_h below contains all the ?H: lines

?X: extracted out of all the units. Metaconfig itself adds the !GROK!THIS!.

?X: Note that this code isn't included into Configure, but must be shipped with.

?X:

?X: For those who wish to know why the file is config\_h.SH instead of the more

?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one

?X: 'dot' is allowed within the file name, as it is part of the "extension" of

?X: the file. MS-DOG will not let you have two 'dots' because that would mean

?X: two "extensions".

?X:

?MAKE:Config\_h: Id End Config\_sh Obsol\_h myuname cf\_time cf\_by package src

?MAKE: -pick c\_h\_weed \$@ %<

?MAKE: -pick

```

c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
")
if test -f $CONFIG_SH; then TOP=.;
elif test -f ../$CONFIG_SH; then TOP=..;
elif test -f ../../$CONFIG_SH; then TOP=../../;
elif test -f ../../../$CONFIG_SH; then TOP=../../../;
elif test -f ../../../../$CONFIG_SH; then TOP=../../../../;
else
echo "Can't find $CONFIG_SH."; exit 1
fi
. $TOP/$CONFIG_SH
;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*/\)'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X: #undef FOO /**/
?X: into
?X: /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to

```

```

?X: /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef(.*^)\*!/^#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises. Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and
* rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifdef _config_h_
#define _config_h_

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: socksizetype.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:socksizetype: \
Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept. Usual values include
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t $socksizetype /**/

```

```
?H:
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
$cat <<EOM
```

Checking to see what type is the last argument  
of accept().

EOM

```
yyy="
case "$d_socklen_t" in
"$define") yyy="$yyy socklen_t"
esac
yyy="$yyy $sizetype int long unsigned"
for xxx in $yyy; do
case "$socksizetype" in
") try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
case "$usesocks" in
"$define")
if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
echo "Your system accepts '$xxx *' for the last argument of accept()."
socksizetype="$xxx"
fi
;;
*) if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h; then
echo "Your system accepts '$xxx *' for the last argument of accept()."
socksizetype="$xxx"
fi
;;
esac
;;
esac
done
: In case none of those worked, prompt the user.
case "$socksizetype" in
") rp='What is the type for socket address structure sizes?'
dflt='int'
./myread
socksizetype=$ans
;;
esac
;;
*) : no sockets, so pick relatively harmless default
socksizetype='int'
;;
```



```
esac
@end
```

#### Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/socksizetype.U
```

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 1996, Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:perladmin: cf\_email Oldconfig Myread cat

?MAKE: -pick add \$@ %<

?Y:TOP

?S:perladmin:

?S: Electronic mail address of the perl5 administrator.

?S:.

: Ask e-mail of administrator

\$cat <<EOM

If you or somebody else will be maintaining perl at your site, please fill in the correct e-mail address here so that they may be contacted if necessary. Currently, the "perlbug" program included with perl will send mail to this address in addition to perlbug@perl.org. You may enter "none" for no administrator.

#### EOM

```
case "$perladmin" in
```

```
) dflt="$cf_email";;
```

```
*) dflt="$perladmin";;
```

```
esac
```

```
rp='Perl administrator e-mail address'
```

```
./myread
```

```
perladmin="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/perladmin.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2017 Karl Williamson

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_thread\_safe\_nl\_langinfo\_l: Compile cat rm\_try Oldconfig \  
i\_pthread i\_stdlib i\_langinfo i\_locale \  
usethreads run

?MAKE: -pick add \$@ %<

?S:d\_thread\_safe\_nl\_langinfo\_l:

?S: This variable contains the eventual value of the

?S: HAS\_THREAD\_SAFE\_NL\_LANGINFO\_L symbol, which indicates if the

?S: nl\_langinfo\_l() function exists and is thread-safe.

?S:.

?C:HAS\_THREAD\_SAFE\_NL\_LANGINFO\_L:

?C: This symbol, when defined, indicates presence of the nl\_langinfo\_l()

?C: function, and that it is thread-safe.

?C:.

?H:#\$d\_thread\_safe\_nl\_langinfo\_l HAS\_THREAD\_SAFE\_NL\_LANGINFO\_L /\*\*/

?H:.

?F:!try

: check for thread\_safe\_nl\_langinfo\_l item

\$cat <<EOM

Checking to see if you have nl\_langinfo\_l() and that it is thread-safe

EOM

?X:

Despite claiming that nl\_langinfo\_l() is thread-safe, the POSIX 2008

?X: standard allows for a non-safe implementation:

?X:

?X: "nl\_langinfo\_l() uses an internal per-thread buffer, and nl\_langinfo()

?X: uses (in all threads) the same buffer that nl\_langinfo\_l() uses in the

?X: initial thread. There can be interactions, but only when

?X: nl\_langinfo\_l() is called in the initial thread"

?X:

?X: If nl\_langinfo\_l() isn't thread safe, might as well just use plain

?X: nl\_langinfo().

?X:

?X: This program calls nl\_langinfo\_l(), then creates a thread, calling plain

?X: nl\_langinfo() from within it, then sees if the buffer in the original

?X: thread was changed.

\$cat >try.c <<EOCP

```
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
```

```
# include <stdlib.h>
```

```
#endif
```

```
#include <string.h>
```

```
#$i_langinfo I_LANGINFO
```

```
#ifdef I_LANGINFO
```

```
# include <langinfo.h>
```

```
#endif
```

```

#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
# include <pthread.h>
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
# include <locale.h>
#endif

void *
thread_start(void
* arg)
{
    nl_langinfo(RADIXCHAR);
}

int main() {
    char * main_buffer;
    char save_main_buffer[1000];
    pthread_t subthread;
    pthread_attr_t attr;

    main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

    /* If too large for our generous allowance, just assume we don't have
    * it. */
    if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
        exit(1);
    }

    strcpy(save_main_buffer, main_buffer);

    if (pthread_attr_init(&attr) != 0) {
        exit(1);
    }

    if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
        exit(1);
    }

    if (pthread_join(subthread, NULL) != 0) {
        exit(1);
    }

    exit(!(strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
case "$usethreads" in

```

```

define)
  set try
  if eval $compile; then
    echo "Your system has nl_langinfo_l()..." >&4
    if $run ./try; then
      echo "and it is thread-safe (just as I'd hoped)." >&4
      d_thread_safe_nl_langinfo_l="$define"
      echo "$d_thread_safe_nl_langinfo_l" >&4
    else
      echo "but it isn't thread-safe, so we won't use it." >&4
    fi
  else
    echo "your system does not have nl_langinfo_l()" >&4
  fi
  ;;
*) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_thread_safe_nl_langinfo_l" = X; then
  d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_nl\_langinfo\_l.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_su\_chown.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_su\_chown.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:40 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_su\_chown: Csym Setvar

?MAKE: -pick add \$@ %<

?S:d\_su\_chown (d\_rootchown):

?S: This variable conditionally defines the SU\_CHOWN symbol, which

?S: indicates to the C program that only root can chown() the owner

?S: of a file.

?S:.

```

?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
?C: can
    change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
    echo 'It looks like only root can chown() the owner of a file.' >&4
    val="$define"
else
    echo 'It looks like root or the owner can chown() a file away.' >&4
    val="$undef"
fi
set d_su_chown
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_su_chown.U

```

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017 H.Merijn Brand (original change by Tony Cook)

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_openat d\_unlinkat d\_renameat d\_linkat d\_fchmodat: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fchmodat:

?S: This variable conditionally defines the HAS\_FCHMODAT symbol, which

?S: indicates the POSIX fchmodat() function is available.

?S:.

?S:d\_linkat:

?S: This variable conditionally defines the HAS\_LINKAT symbol, which

?S: indicates the POSIX linkat() function is available.

?S:.

?S:d\_openat:

?S: This variable conditionally defines the HAS\_OPENAT symbol, which

?S: indicates the POSIX openat() function is available.

?S:.

?S:d\_renameat:

?S: This variable conditionally defines the HAS\_RENAMEAT symbol, which

?S: indicates the POSIX renameat() function is available.

?S:  
?S:d\_unlinkat:  
?S: This variable conditionally defines the HAS\_UNLINKAT symbol, which  
?S: indicates the POSIX unlinkat() function is available.  
?S:  
?C:HAS\_FCHMODAT:  
?C: This symbol is defined if the fchmodat() routine is available.  
?C:  
?C:HAS\_LINKAT:  
?C: This symbol is defined if the linkat() routine is available.  
?C:  
?C:HAS\_OPENAT:  
?C: This symbol is defined if the openat() routine is available.  
?C:  
?C:HAS\_RENAMEAT:  
?C: This symbol is defined if the renameat() routine is available.  
?C:  
?C:HAS\_UNLINKAT:  
?C: This symbol is defined if the unlinkat() routine is available.  
?C:  
?H:#\$d\_fchmodat HAS\_FCHMODAT /\*\*/  
?H:#\$d\_linkat HAS\_LINKAT /\*\*/  
?H:#\$d\_openat HAS\_OPENAT /\*\*/  
?H:#\$d\_renameat HAS\_RENAMEAT /\*\*/  
?H:#\$d\_unlinkat HAS\_UNLINKAT /\*\*/  
?H:  
?LINT:set d\_openat d\_unlinkat d\_renameat d\_linkat d\_fchmodat  
: check for openat, unlinkat, renameat, linkat, fchmodat  
set openat d\_openat  
eval \$inlibc  
  
set unlinkat d\_unlinkat  
eval \$inlibc  
  
set renameat d\_renameat  
eval \$inlibc  
  
set linkat d\_linkat  
eval \$inlibc  
  
set fchmodat d\_fchmodat  
eval  
\$inlibc  
  
Found in path(s):  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fsat.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:08 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_seteuid.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:33:38 ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25 13:55:59 ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:12:51 ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
cat cc cflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point. This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient. If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used. If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C: d_Gconvert='gconvert((x),(n),(t),(b))'
?C: d_Gconvert='gcvt((x),(n),(b))'
?C: d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
not be kept.
?C:
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:
?T: xxx_list xxx_convert
?F:!try
?X:
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5

```



```

?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
#endif
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g", (n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
    if (strcmp(expect, got) {
        printf("%s oddity: Expected %s, got %s\n",
            myname, expect, got);
        exit(1);
    }
}

int
main()
{
    char buf[64];
    buf[63] = '\0';

    /* This must be 1st test on (which?) platform */
    /* Alan Burlison <AlanBurlison@unn.unisys.com> */
    Gconvert(0.1, 8, 0, buf);
    checkit("0.1",
        buf);

    Gconvert(1.0, 8, 0, buf);
    checkit("1", buf);

    Gconvert(0.0, 8, 0, buf);
    checkit("0", buf);

    Gconvert(-1.0, 8, 0, buf);

```

```

checkit("-1", buf);

/* Some Linux gcvt's give 1.e+5 here. */
Gconvert(100000.0, 8, 0, buf);
checkit("100000", buf);

/* Some Linux gcvt's give -1.e+5 here. */
Gconvert(-100000.0, 8, 0, buf);
checkit("-100000", buf);

exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt printf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt printf' ;;
gcvt*) xxx_list='gcvt gconvert printf' ;;
printf*) xxx_list='printf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt printf' ;;
esac

for xxx_convert in $xxx_list; do
echo "Trying $xxx_convert"
$rm_try
if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
try.c $libs > /dev/null 2>&1 ; then
echo "$xxx_convert" found. >&4
if ./try; then
echo "I'll use $xxx_convert to convert floats
into a string." >&4
break;
else
echo "...But $xxx_convert didn't work as I expected."
fi
else
echo "$xxx_convert NOT found." >&4
fi
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_gconvert.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_newsadm.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:36:53 ram

?RCS: patch61: added Guess dependency

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:14:33 ram

?RCS: patch36: call ./eunice explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:42 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig

?MAKE: -pick add \$@ %<

?S:d\_newsadm:

?S: This variable

conditionally defines the NEWS\_ADMIN symbol, which

?S: indicates to the C program that there is a user who is in charge

?S: of news administration.

?S:.

?S:newsadmin:

?S: This variable holds the login name of the news administrator, if any.

?S:.

?C:NEWS\_ADMIN (NEWSADMIN):

?C: This symbol, if defined, contains the login name of the news

?C: administrator.

?C:.

?H:#\$d\_newsadm NEWS\_ADMIN "\$newsadmin" /\*\*/

?H:.

?LINT:set d\_newsadm

: get news administrator name

case "\$newsadmin" in

")

if \$contains "^news:" /etc/passwd >/dev/null 2>&1 ; then

dflt=news

elif \$contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then

```

dflt=usenet
elif ./eunice; then
dflt=system
else
dflt=root
fi
;;
*)
dflt="$newsadmin"
;;
esac
$cat <<'EOM'

```

Many systems keep their news in a private directory, or have a non-superuser in charge of administering news. (If you don't have such a user, take the default answer.) I need the login name (not directory) which is used for news administration.

```

EOM
rp="News
admin login?"
./myread
newsadmin="$ans"
case "$newsadmin" in
root) val="$undef" ;;
*) val="$define" ;;
esac
set d_newsadm
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d_newsadm.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_sethostent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_sethostent\_r sethostent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \
usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_sethostent\_r:

?S: This variable conditionally defines the HAS\_SETHOSTENT\_R symbol,

?S: which indicates to the C program that the sethostent\_r()  
?S: routine is available.  
?S:.  
?S:sethostent\_r\_proto:  
?S: This variable encodes the prototype of sethostent\_r.  
?S: It is zero if d\_sethostent\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_sethostent\_r  
?S: is defined.  
?S:.  
?C:HAS\_SETHOSTENT\_R:  
?C: This symbol, if defined, indicates that the sethostent\_r routine  
?C: is  
available to sethostent re-entrantly.  
?C:.  
?C:SETHOSTENT\_R\_PROTO:  
?C: This symbol encodes the prototype of sethostent\_r.  
?C: It is zero if d\_sethostent\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_sethostent\_r  
?C: is defined.  
?C:.  
?H:#\$d\_sethostent\_r HAS\_SETHOSTENT\_R /\*\*/  
?H:#define SETHOSTENT\_R\_PROTO \$sethostent\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_sethostent\_r\_proto  
: see if sethostent\_r exists  
set sethostent\_r d\_sethostent\_r  
eval \$inlibc  
case "\$d\_sethostent\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_netdb netdb.h"  
case "\$d\_sethostent\_r\_proto:\$usethreads" in  
":define") d\_sethostent\_r\_proto=define  
set d\_sethostent\_r\_proto sethostent\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_sethostent\_r\_proto" in  
define)  
case "\$sethostent\_r\_proto" in  
"|0) try='int sethostent\_r(int, struct hostent\_data\*);'  
./protochk "\$extern\_C \$try" \$hdrs && sethostent\_r\_proto=I\_ID ;;  
esac  
case "\$sethostent\_r\_proto" in  
"|0) try='void  
sethostent\_r(int, struct hostent\_data\*);'  
./protochk "\$extern\_C \$try" \$hdrs && sethostent\_r\_proto=V\_ID ;;  
esac  
case "\$sethostent\_r\_proto" in

```

"|0) d_sethostent_r=undef
sethostent_r_proto=0
echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
*) case "$sethostent_r_proto" in
REENTRANT_PROTO*) ;;
*) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "sethostent_r has no prototype, not using it." >&4 ;;
esac
d_sethostent_r=undef
sethostent_r_proto=0
;;
esac
;;
*) sethostent_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_sethostent\_r.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

\*

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\*

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\* as specified in the README file that comes with the distribution.

\* You may reuse parts of this distribution only within the terms of

\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* \$Log: scandir.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:45 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/C/fake/scandir.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_vfork.U,v \$  
?RCS: Revision 3.0.1.6 1994/08/29 16:18:21 ram  
?RCS: patch32: set default to 'y' the first time  
?RCS:  
?RCS: Revision 3.0.1.5 1994/06/20 06:59:14 ram  
?RCS: patch30: usevfork was not always properly set  
?RCS:  
?RCS: Revision 3.0.1.4 1994/05/13 15:20:56 ram  
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/05/06 14:59:09 ram  
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1993/10/16  
13:49:39 ram  
?RCS: patch12: added magic for vfork()  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:06:57 ram  
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)  
?RCS: patch10: added compatibility code for older config.sh (WAD)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:07:55 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_vfork usevfork: Inlibc Myread Oldconfig Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_vfork:  
?S: This variable conditionally defines the HAS\_VFORK symbol, which  
?S: indicates the vfork() routine is available.  
?S:.  
?S:usevfork:  
?S: This variable is set to true when the user accepts to use vfork.  
?S: It is set to false when no vfork is available or when the user  
?S: explicitly requests not to use vfork.  
?S:.  
?C:HAS\_VFORK (VFORK):

?C: This symbol, if defined, indicates that vfork() exists.

?C:.

?H:#\$d\_vfork HAS\_VFORK /\*\*/

?H:.

?M:vfork: HAS\_VFORK

?M:#ifndef HAS\_VFORK

?M:#define vfork fork

?M:#endif

?M:.

?LINT:set d\_vfork

: see if there is a vfork

val="

set

vfork val

eval \$inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in

: perl on Solaris 2.x, and probably elsewhere.

case "\$val" in

\$define)

echo " "

case "\$usevfork" in

false) dflt='n';;

\*) dflt='y';;

esac

rp="Some systems have problems with vfork(). Do you want to use it?"

. /myread

case "\$ans" in

y|Y) ;;

\*)

echo "Ok, we won't use vfork()."

val="\$undef"

::

esac

::

esac

?X:

?X: Only set it when final value is known to avoid spurious Whoas

?X: Then set usevfork accordingly to the current value, for next run

?X:

set d\_vfork

eval \$setvar

case "\$d\_vfork" in

\$define) usevfork='true';;

\*) usevfork='false';;

esac

Found in path(s):



\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_vfork.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_time.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit finds which "time" include to use. If 'timezone' is used by the

?X: program, we also try to find which header should be included. Eventually,

?X: we look for <sys/select.h> if I\_SYSSSELECT is used, to get struct timeval.

?X:

?MAKE:i\_time i\_systime i\_systimek timeincl: cat cc cflags contains rm\_try \

echo n c +i\_sysselect Findhdr

?MAKE: -pick add \$@ %<

?S:i\_time:

?S: This

variable conditionally defines I\_TIME, which indicates

?S: to the C program that it should include <time.h>.

?S:.

?S:i\_systime:

?S: This variable conditionally defines I\_SYS\_TIME, which indicates

?S: to the C program that it should include <sys/time.h>.

?S:.

?S:i\_systimek:

?S: This variable conditionally defines I\_SYS\_TIME\_KERNEL, which

?S: indicates to the C program that it should include <sys/time.h>

?S: with KERNEL defined.

?S:.

?S:timeincl:

?S: This variable holds the full path of the included time header(s).

?S:.

?C:I\_TIME (USE\_TIME\_H):

?C: This symbol, if defined, indicates to the C program that it should

?C: include <time.h>.

?C:.

?C:I\_SYS\_TIME (I\_SYSTIME USE\_SYS\_TIME\_H NO\_TIME\_WITH\_SYS\_TIME):

```

?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME /**/
?H:#$i_systime
I_SYS_TIME /**/
?H:#$i_systimek I_SYS_TIME_KERNEL /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselect
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
int main()
{
    struct tm foo;
#ifdef S_TIMEVAL
    struct timeval bar;
#endif
#ifdef S_TIMEZONE
    struct timezone tzp;
#endif
    if (foo.tm_sec == foo.tm_sec)
        exit(0);
#ifdef S_TIMEVAL
    if (bar.tv_sec == bar.tv_sec)
        exit(0);
#endif
}

```

```

exit(1);
}
EOCP
flags=""
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
xselect='-DI_SYSSELECT'
else
xselect=""
fi
@end
@if timezone
for s_timezone
in '-DS_TIMEZONE' "; do
@else
s_timezone=""
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect "; do
@else
sysselect=""
@end
for s_timeval in '-DS_TIMEVAL' "; do
for i_systimek in "-DSYSTIMEKERNEL"; do
for i_time in "-DI_TIME"; do
for i_systime in '-DI_SYSTIME' "; do
case "$flags" in
") $echo $n ".$.c"
if $cc $ccflags \
$i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
-o try try.c >/dev/null 2>&1 ; then
set X $i_time $i_systime $i_systimek $sysselect $s_timeval
shift
flags="$*"
echo " "
$echo $n "Succeeded with $flags$.c"
fi
;;
esac
done
done
done
done
@if I_SYSSELECT
done
@end
@if timezone

```

```

done
@end
timeincl="
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
timeincl=`./findhdr sys/time.h`
echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_TIME*) i_time="$define"
timeincl=`./findhdr time.h`" $timeincl"
echo
"We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
timeincl=`./findhdr sys/time.h`" $timeincl"
echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSSELECT
case "$flags" in
*I_SYSSSELECT*) i_syssselct="$define"
timeincl=`./findhdr sys/select.h`" $timeincl"
echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_syssselct" in
") i_syssselct="$undef";;
esac
esac
@end
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_time.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_group.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>  
?RCS:  
?RCS: \$Log: d\_group.U,v \$  
?RCS: Revision 3.0.1.2 1997/02/28 15:34:52 ram  
?RCS: patch61: useless unit dropped.  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:07:48 ram  
?RCS: patch32: created by ADO  
?RCS:  
?X:  
?X: Useless unit dropped.  
?X:  
?LINT:empty

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_group.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_getespwnam: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_getespwnam:  
?S: This variable conditionally defines HAS\_GETESPWNAM if getespwnam() is  
?S: available to retrieve enhanced (shadow) password entries by name.  
?S:.  
?C:HAS\_GETESPWNAM:  
?C: This symbol, if defined, indicates that the getespwnam system call is  
?C: available to retrieve enhanced (shadow) password entries by name.  
?C:.  
?H:#\$d\_getespwnam HAS\_GETESPWNAM /\*\*/  
?H:.  
?LINT:set d\_getespwnam  
: see if getespwnam exists  
set getespwnam d\_getespwnam  
eval \$inlibc

Found in

path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_getespwnam.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: lseektype.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:30:10 ram

?RCS: patch32: now uses new Typedef unit to compute type information

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:08 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:lseektype: Myread Typedef

?MAKE: -pick add \$@ %<

?S:lseektype:

?S: This variable defines lseektype to be something like off\_t, long,

?S: or whatever type is used to declare lseek offset's type in the

?S: kernel (which also appears to be lseek's return type).

?S:.

?C:Off\_t

(LSEEKTYPE):

?C: This symbol holds the type used to declare offsets in the kernel.

?C: It can be int, long, off\_t, etc... It may be necessary to include

?C: <sys/types.h> to get any typedef'ed information.

?C:.

?H:#define Off\_t \$lseektype /\* <offset> type \*/

?H:.

: see what type lseek is declared as in the kernel

set off\_t lseektype long stdio.h sys/types.h

eval \$typedef

echo " "

dflt="\$lseektype"

rp="What type is lseek's offset on this system declared as?"

./myread

lseektype="\$ans"

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/lseektype.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: mallocsrc.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 16:10:26 ram

?RCS: patch61: added support for Free\_t, the type of free()

?RCS: patch61: replaced .o with \$\_o all over the place

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:10:46 ram

?RCS: patch23: added support for MYMALLOC, mainly for perl5 (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:12 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:mallocsrc mallocobj usemymalloc malloctype d\_mymalloc \

freetype: Myread \

Oldconfig

package Guess Setvar rm cat +cc +ccflags Findhdr \

i\_malloc i\_stdlib sed libs \_o ptrsize

?MAKE: -pick add \$@ %<

?X: Put near top so that other tests don't erroneously include

?X: -lmalloc. --AD 22 June 1998

?Y:TOP

?S:usemymalloc:

?S: This variable contains y if the malloc that comes with this package

?S: is desired over the system's version of malloc. People often include

?S: special versions of malloc for efficiency, but such versions are often

?S: less portable. See also mallocsrc and mallocobj.

?S: If this is 'y', then -lmalloc is removed from \$libs.

?S:.

?S:mallocsrc:

?S: This variable contains the name of the malloc.c that comes with

?S: the package, if that malloc.c is preferred over the system malloc.

?S: Otherwise the value is null. This variable is intended for generating

?S: Makefiles.

?S:.

?S:d\_mymalloc:

?S: This variable conditionally defines MYMALLOC in case other parts  
of the source want to take special action if MYMALLOC is used.

?S: This may include different sorts  
of profiling or error detection.

?S:.

?S:mallocobj:  
?S: This variable contains the name of the malloc.o that this package  
generates, if that malloc.o is preferred over the system malloc.  
?S: Otherwise the value is null. This variable is intended for generating  
Makefiles. See malloccsrc.

?S:.

?S:freetype:  
?S: This variable contains the return type of free(). It is usually  
void, but occasionally int.

?S:.

?S:malloctype:  
?S: This variable contains the kind of ptr returned by malloc and realloc.

?S:.

?C:Free\_t:  
?C: This variable contains the return type of free(). It is usually  
void, but occasionally int.

?C:.

?C:Malloc\_t (MALLOCPTRTYPE):  
?C: This symbol is the type of pointer returned by malloc and realloc.

?C:.

?H:#define Malloc\_t \$malloctype /\*\*/  
?H:#define Free\_t \$freetype /\*\*/  
?H:.

?C:MYMALLOC:  
?C: This symbol, if defined, indicates that we're using our own malloc.

?C:.

?H:#\$d\_mymalloc MYMALLOC /\*\*/  
?H:.

?LINT:change libs

?X: Cannot test for malloccsrc; it  
is the unit's name and there is a bug in  
the interpreter which defines all the names, even though they are not used.

```
@if mallocobj
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
case "$ptrsize" in
4) dflt='y' ;;
*) dflt='n' ;;
esac
```



```

;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
usemymalloc='y'
mallosrc='malloc.c'
mallocobj="malloc$_o"
d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallosrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpromise
case "$libs" in
*_lmalloc*)
: Remove malloc from list of libraries to use
echo "Removing unneeded -lmalloc from library list" >&4
set `echo X $libs | $sed -e 's/-lmalloc //' -e 's/-lmalloc$/'`
shift
libs="$*"
echo "libs = $libs" >&4
;;
esac
;;
*)
usemymalloc='n'
mallosrc=""
mallocobj=""
d_mymalloc="$undef"
;;
esac

@end
@if
MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>

```

```

#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
if $cc $cflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
malloctype='void *'
else
malloctype='char *'
fi
;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
if $cc $cflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
freetype='void'
else
freetype='int'
fi
;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/mallocsrc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysselect.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_sysselect.U,v \$  
?RCS: Revision 3.0.1.1 1993/08/25 14:01:33 ram  
?RCS: patch6: added default for i\_sysselect  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:35 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: Look wether <sys/select.h> exists  
?X:  
?MAKE:i\_sysselect: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_sysselect:  
?S: This variable conditionally defines I\_SYS\_SELECT, which indicates  
?S: to the C program that it should include <sys/select.h> in  
order to  
?S: get the definition of struct timeval.  
?S:.  
?C:I\_SYS\_SELECT (I\_SYSSSELECT):  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <sys/select.h> in order to get definition of struct timeval.  
?C:.  
?H:#\$i\_sysselect I\_SYS\_SELECT /\*\*/  
?H:.  
?D:i\_sysselect="  
?LINT:set i\_sysselect  
: see if sys/select.h has to be included  
set sys/select.h i\_sysselect  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_sysselect.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:

```

?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2 1995/07/25 14:07:50 ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:14:00 ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:46 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists. The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
$val; then
echo 'times() found.' >&4
d_times="$define"

```

```

inc="
case "$i_systimes" in
"$define") inc='sys/times.h';
esac
set clock_t clocktype long stdio.h sys/types.h $inc
eval $typedef
dflt="$clocktype"
echo " "
rp="What type is returned by times() on this system?"
./myread
clocktype="$ans"
else
echo 'times() NOT found, hope that will do.' >&4
d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
clocktype='int'
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d_times.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: rootid.U,v \$

?RCS: Revision 3.0.1.1 1995/01/30 14:45:36 ram

?RCS: patch49: now only prints a single empty line when outputting something

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:42 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:rootid: sed

?MAKE: -pick add \$@ %<

?S:rootid:

?S: This variable contains the eventual value of the ROOTID symbol,

?S: which is the uid of root.

?S:.

?C:ROOTID:

?C: This symbol contains the uid of root, normally

```

0.
?C:.
?H:#define ROOTID $rootid /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*\([[:^:]]*\).*""$/1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/rootid.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fseeko.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir="
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
has been installed, users may install their own local
?S: html pages in this directory with
?S: MakeMaker Makefile.PL
?S: or equivalent. See INSTALL for details.
?S:.
?D:sitehtml1direxp="
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir="
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")

```

```

dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$sitehtml1dir ;;
esac
case "$dflt" in
'| ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
./getfile
prefixvar=sitehtml1dir
./setprefixvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/sitehtml1dir.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.

?RCS:

?RCS: \$Log: d\_dosuid.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:33:03 ram

?RCS: patch61: moved unit to TOP via a ?Y: layout directive

?RCS: patch61: tell them /dev/fd is not about floppy disks

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:12:08 ram

?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:55 ram

?RCS: Baseline for

dist 3.0 netwide release.

?RCS:

?MAKE:d\_dosuid d\_suidsafes: cat contains ls rm test Myread Setvar \

Oldconfig Guess package hint patchlevel

?MAKE: -pick add \$@ %<

?S:d\_suidsafes:

?S: This variable conditionally defines SETUID\_SCRIPTS\_ARE\_SECURE\_NOW

?S: if setuid scripts can be secure. This test looks in /dev/fd/.

?S:.



?S:d\_suid:  
 ?S: This variable conditionally defines the symbol DOSUID, which  
 ?S: tells the C program that it should insert setuid emulation code  
 ?S: on hosts which have setuid #! scripts disabled.  
 ?S:.  
 ?C:SETUID\_SCRIPTS\_ARE\_SECURE\_NOW:  
 ?C: This symbol, if defined, indicates that the bug that prevents  
 ?C: setuid scripts from being secure is not present in this kernel.  
 ?C:.  
 ?C:DOSUID:  
 ?C: This symbol, if defined, indicates that the C program should  
 ?C: check the script that it is executing for setuid/setgid bits, and  
 ?C: attempt to emulate setuid/setgid on systems that have disabled  
 ?C: setuid #! scripts because the kernel can't do it securely.  
 ?C: It is up to the package  
 designer to make sure that this emulation  
 ?C: is done securely. Among other things, it should do an fstat on  
 ?C: the script it just opened to make sure it really is a setuid/setgid  
 ?C: script, it should make sure the arguments passed correspond exactly  
 ?C: to the argument on the #! line, and it should not trust any  
 ?C: subprocesses to which it must pass the filename rather than the  
 ?C: file descriptor of the script to be executed.  
 ?C:.  
 ?H:#\$d\_suidsafe SETUID\_SCRIPTS\_ARE\_SECURE\_NOW /\*\*/  
 ?H:#\$d\_suid DOSUID /\*\*/  
 ?H:.  
 ?Y:TOP  
 ?F:!reflect  
 ?LINT: set d\_suidsafe  
 : see if setuid scripts can be secure  
 \$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being secure. Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.  
 (If setuid #! scripts would be secure but have been disabled anyway,  
 don't say that they are secure if asked.)

EOM

```
val="$undef"
if $test -d /dev/fd; then
  echo "#!$ls" >reflect
  chmod
  +x,u+s reflect
  ./reflect >flect 2>&1
  if $contains "/dev/fd" flect >/dev/null; then
```

```
echo "Congratulations, your kernel has secure setuid scripts!" >&4
val="$define"
else
$cat <<EOM
```

If you are not sure if they are secure, I can check but I'll need a username and password different from the one you are using right now. If you don't have such a username or don't want me to test, simply enter 'none'.

EOM

```
rp='Other username to test security of setuid scripts with?'
dflt='none'
./myread
case "$ans" in
n|none)
case "$d_suidsafesafe" in
") echo "I'll assume setuid scripts are *not* secure." >&4
dflt=n;;
"$undef")
echo "Well, the $hint value is *not* secure." >&4
dflt=n;;
*) echo "Well, the $hint value *is* secure." >&4
dflt=y;;
esac
;;
*)
$rm -f reflect flect
echo "#!$ls" >reflect
chmod +x,u+s reflect
echo >flect
chmod a+w flect
echo "'su' will (probably) prompt you for '$ans's password.'"
su $ans -c './reflect
>flect'
if $contains "/dev/fd" flect >/dev/null; then
echo "Okay, it looks like setuid scripts are secure." >&4
dflt=y
else
echo "I don't think setuid scripts are secure." >&4
dflt=n
fi
;;
esac
rp='Does your kernel have *secure* setuid scripts?'
./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef";;
```

```

    esac
fi
else
echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
echo "(That's for file descriptors, not floppy disks.)"
val="$undef"
fi
set d_suidsafesafe
eval $setvar

$rm -f reflect flect

```

```

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafesafe" in
"$define")
val="$undef"
echo "No need to emulate SUID scripts since they are secure here." >&4
;;
*)
$cat <<EOM

```

Some systems have disabled setuid scripts, especially systems where setuid scripts cannot be secure. On systems where setuid scripts have been disabled, the setuid/setgid bits on scripts are currently useless. It is possible for \$package to detect those bits and emulate setuid/setgid in a secure fashion. This emulation will only work if setuid scripts have been disabled in your kernel.

```

EOM
case "$d_dosuid" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
rp="Do you want to do setuid/setgid emulation?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef";;
esac
;;
esac
set d_dosuid
eval $setvar
else
case "$d_dosuid" in

```

```
"$define")
cat >&4 <<EOH
```

SUID emulation has been removed for 5.12  
Please re-run Configure without -Dd\_dosuid

```
EOH
exit 1;
;;
esac
d_dosuid=undef
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_dosuid.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE:-pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_getcwd.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_sendmsg: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_sendmsg:  
?S: This variable conditionally defines the HAS\_SENDMSG symbol, which  
?S: indicates to the C program that the sendmsg() routine is available.  
?S:.  
?C:HAS\_SENDMSG:  
?C: This symbol, if defined, indicates that the sendmsg routine is  
?C: available to send structured socket messages.  
?C:.  
?H:#\$d\_sendmsg HAS\_SENDMSG /\*\*/  
?H:.  
?LINT:set d\_sendmsg  
: see if sendmsg exists  
set sendmsg d\_sendmsg  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_sendmsg.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
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?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_sanemcmp.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:41:19 ram  
?RCS: patch61: created  
?RCS:  
?RCS:  
?MAKE:d\_sanemcmp: cat d\_memcmp +cc +optimize +ccflags +libs +ldflags rm \  
i\_memory i\_stdlib i\_string i\_unistd Oldconfig Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_sanemcmp:

?S: This variable conditionally defines the HAS\_SANE\_MEMCMP symbol if

?S: the memcmp() routine is available and can be used to compare relative

?S: magnitudes of chars with their high bits set.

?S:.

?C:HAS\_SANE\_MEMCMP:

?C: This symbol,

if defined, indicates that the memcmp routine is available

?C: and can be used to compare relative magnitudes of chars with their high

?C: bits set. If it is not defined, roll your own version.

?C:.

?H:#\$d\_sanemcmp HAS\_SANE\_MEMCMP /\*\*/

?H:.

?F:!sanemcmp

?LINT: set d\_sanemcmp

: can memcmp be trusted to compare relative magnitude?

?X: assume the worst

val="\$undef"

case "\$d\_memcmp" in

"\$define")

echo " "

echo \

"Checking to see if your memcmp() can compare relative magnitude..." >&4

\$cat >foo.c <<EOCP

#\$i\_memory I\_MEMORY

#\$i\_stdlib I\_STDLIB

#\$i\_string I\_STRING

#\$i\_unistd I\_UNISTD

EOCP

\$cat >>foo.c <<'EOCP'

#include <stdio.h>

#ifdef I\_MEMORY

# include <memory.h>

#endif

#ifdef I\_STDLIB

# include <stdlib.h>

#endif

#ifdef I\_STRING

# include <string.h>

#else

# include <strings.h>

#endif

#ifdef I\_UNISTD

# include <unistd.h> /\* Needed for NetBSD \*/

#endif

int main()

{

char a = -1;

char b = 0;

```

if ((a < b) && memcmp(&a, &b, 1) < 0)
    exit(1);
exit(0);
}
EOCP
if $cc $optimize $ccflags
$ldflags \
    -o sanemcmp foo.c $libs >/dev/null 2>&1; then
if ./sanemcmp 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
else
    echo "No, it can't (it uses signed chars)."

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_sanemcmp.U

```

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?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_malloc\_size d\_malloc\_good\_size d\_malloc\_usable\_size: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_malloc\_size:

?S: This symbol, if defined, indicates that the malloc\_size

?S: routine is available for use.

?S:.

?S:d\_malloc\_good\_size:

?S: This symbol, if defined, indicates that the malloc\_good\_size

?S: routine is available for use.

?S:.

?S:d\_malloc\_usable\_size:  
 ?S: This symbol, if defined, indicates that the malloc\_usable\_size  
 ?S: routine is available for use.  
 ?S:.  
 ?C:HAS\_MALLOC\_SIZE:  
 ?C: This symbol, if defined, indicates that  
 the malloc\_size  
 ?C: routine is available for use.  
 ?C:.  
 ?H:#\$d\_malloc\_size HAS\_MALLOC\_SIZE /\*\*/  
 ?H:.  
 ?C:HAS\_MALLOC\_GOOD\_SIZE:  
 ?C: This symbol, if defined, indicates that the malloc\_good\_size  
 ?C: routine is available for use.  
 ?C:.  
 ?H:#\$d\_malloc\_good\_size HAS\_MALLOC\_GOOD\_SIZE /\*\*/  
 ?H:.  
 ?C:HAS\_MALLOC\_USABLE\_SIZE:  
 ?C: This symbol, if defined, indicates that the malloc\_usable\_size  
 ?C: routine is available for use.  
 ?C:.  
 ?H:#\$d\_malloc\_usable\_size HAS\_MALLOC\_USABLE\_SIZE /\*\*/  
 ?H:.  
 ?LINT:set d\_malloc\_size  
 ?LINT:set d\_malloc\_good\_size  
 ?LINT:set d\_malloc\_usable\_size  
 : see if malloc\_size exists  
 set malloc\_size d\_malloc\_size  
 eval \$inlibc  
  
 : see if malloc\_size\_good exists  
 set malloc\_good\_size d\_malloc\_good\_size  
 eval \$inlibc  
  
 : see if malloc\_usable\_size exists  
 set malloc\_usable\_size d\_malloc\_usable\_size  
 eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_malloc\_size.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?MAKE:d\_mprotect: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mprotect:  
?S: This variable conditionally defines HAS\_MPROTECT if mprotect() is  
?S: available to modify the access protection of a memory mapped file.  
?S:.  
?C:HAS\_MPROTECT:  
?C: This symbol, if defined, indicates that the mprotect system call is  
?C: available to modify the access protection of a memory mapped file.  
?C:.  
?H:#\$d\_mprotect HAS\_MPROTECT /\*\*/  
?H:.  
?LINT:set d\_mprotect  
: see if mprotect exists  
set mprotect d\_mprotect  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_mprotect.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: sunscanf.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:09:54 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar  
?MAKE: -pick add \$@ %<  
?S:sunscanf:  
?S: This variable is set if this system runs with the Sun version  
?S: of scanf.  
?S:.  
?C:SUNSCANF:

?C: This variable is set if this system runs with the Sun version

?C: of scanf.

?C:.

?H:#\$sunscanf SUNSCANF /\*\*/

?H:.

?LINT:set sunscanf

: check to see what kinda scanf your using.

echo " "

echo "Checking

to see what flavor of scanf you have..." >&4

\$cat >scanf.c <<'EOCP'

int main()

{

float value;

sscanf("4.5","%g",&value);

printf("%d\n", value == 4.5);

}

EOCP

if \$cc \$ccflags -o scanf scanf.c >/dev/null 2>&1 ; then

if \$test `scanf` = 0; then

echo "Hmm.. seems your not running the USG flavor.."

val="\$undef"

else

echo "Uh... your running the USG flavor of scanf."

val="\$define"

fi

else

echo "(I can't seem to compile the test program... Guessing)"

val="\$undef"

fi

set sunscanf

eval \$setvar

\$rm -f scanf\*

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sunscanf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_endprotoent\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

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?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

```

?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_endprotoent_r_proto:$usethreads" in
":define") d_endprotoent_r_proto=define
set d_endprotoent_r_proto endprotoent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_endprotoent_r_proto" in
define)
case "$endprotoent_r_proto" in
"|0) try='int endprotoent_r(struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
esac
case "$endprotoent_r_proto"

```

```

in
"|0) try='void endprotoent_r(struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
esac
case "$endprotoent_r_proto" in
"|0) d_endprotoent_r=undef
endprotoent_r_proto=0
echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$endprotoent_r_proto" in
REENTRANT_PROTO*) ;;
*) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
esac
d_endprotoent_r=undef
endprotoent_r_proto=0
;;
esac
;;
*) endprotoent_r_proto=0
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_endprotoent_r.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getpwuid\_r.U,v ORCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getpwuid\_r getpwuid\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usetthreads i\_pwd extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getpwuid\_r:

?S: This variable conditionally defines the HAS\_GETPWUID\_R symbol,

?S: which indicates to the C program that the getpwuid\_r()

?S: routine is available.

?S:.

?S:getpwuid\_r\_proto:  
?S: This variable encodes the prototype of getpwuid\_r.  
?S: It is zero if d\_getpwuid\_r is undef, and one of the  
?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getpwuid\_r  
?S: is defined.  
?S:.  
?C:HAS\_GETPWUID\_R:  
?C: This symbol, if defined, indicates that the getpwuid\_r routine  
?C: is available to  
getpwuid re-entrantly.  
?C:.  
?C:GETPWUID\_R\_PROTO:  
?C: This symbol encodes the prototype of getpwuid\_r.  
?C: It is zero if d\_getpwuid\_r is undef, and one of the  
?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getpwuid\_r  
?C: is defined.  
?C:.  
?H:#\$d\_getpwuid\_r HAS\_GETPWUID\_R /\*\*/  
?H:#define GETPWUID\_R\_PROTO \$getpwuid\_r\_proto /\*\*/  
?H:.  
?T:try hdrs d\_getpwuid\_r\_proto  
: see if getpwuid\_r exists  
set getpwuid\_r d\_getpwuid\_r  
eval \$inlibc  
case "\$d\_getpwuid\_r" in  
"\$define")  
hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_pwd pwd.h"  
case "\$d\_getpwuid\_r\_proto:\$usetthreads" in  
":define") d\_getpwuid\_r\_proto=define  
set d\_getpwuid\_r\_proto getpwuid\_r \$hdrs  
eval \$hasproto ;;  
\*) ;;  
esac  
case "\$d\_getpwuid\_r\_proto" in  
define)  
case "\$getpwuid\_r\_proto" in  
"|0) try='int getpwuid\_r(uid\_t, struct passwd\*, char\*, size\_t, struct passwd\*\*);'  
./protochk "\$extern\_C \$try" \$hdrs && getpwuid\_r\_proto=I\_TSBWR ;;  
esac  
case "\$getpwuid\_r\_proto" in  
"|0) try='int getpwuid\_r(uid\_t, struct passwd\*, char\*, int,  
struct passwd\*\*);'  
./protochk "\$extern\_C \$try" \$hdrs && getpwuid\_r\_proto=I\_TSBIR ;;  
esac  
case "\$getpwuid\_r\_proto" in  
"|0) try='int getpwuid\_r(uid\_t, struct passwd\*, char\*, int);'  
./protochk "\$extern\_C \$try" \$hdrs && getpwuid\_r\_proto=I\_TSBI ;;  
esac

```

case "$getpwuid_r_proto" in
"|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
./protochk "$xtern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
esac
case "$getpwuid_r_proto" in
"|0) d_getpwuid_r=undef
getpwuid_r_proto=0
echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
*) case "$getpwuid_r_proto" in
REENTRANT_PROTO*) ;;
*) getpwuid_r_proto="REENTRANT_PROTO_${getpwuid_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usetthreads" in
define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
esac
d_getpwuid_r=undef
getpwuid_r_proto=0
;;
esac
;;
*) getpwuid_r_proto=0
;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_getpwuid_r.U
```

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?RCS: \$Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: This file is included with or a derivative work of a file included

?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: archlib.U,v \$

?RCS: Revision 3.1 1999/07/08 18:32:29 doughera

?RCS: Updated for perl5.005\_5x

?RCS:  
?RCS:  
?RCS: Revision 3.0.1.4 1995/09/25 09:15:18 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.3 1995/02/15 14:14:14 ram  
?RCS: patch51: architecture name is now  
computed by a separate unit  
?RCS:  
?RCS: Revision 3.0.1.2 1995/01/30 14:32:22 ram  
?RCS: patch49: archname is now systematically recomputed  
?RCS: patch49: can now handle installation prefix changes (from WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:02:36 ram  
?RCS: patch36: created by ADO  
?RCS:  
?MAKE:d\_archlib archlib archlibexp installarchlib: \  
cat Getfile Setprefixvar Loc Oldconfig archname spackage \  
privlib sed test Prefixit Prefixup binexp  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:d\_archlib:  
?S: This variable conditionally defines ARCHLIB to hold the pathname  
?S: of architecture-dependent library files for \$package. If  
?S: \$archlib is the same as \$privlib, then this is set to undef.  
?S:.  
?D:archlib="  
?S:archlib:  
?S: This variable holds the name of the directory in which the user wants  
?S: to put architecture-dependent public library files for \$package.  
?S: It is most often a local directory such as /usr/local/lib.  
?S: Programs using this variable must be prepared to deal  
?S: with  
filename expansion.  
?S:.  
?D:archlibexp="  
?S:archlibexp:  
?S: This variable is the same as the archlib variable, but is  
?S: filename expanded at configuration time, for convenient use.  
?S:.  
?D:installarchlib="  
?S:installarchlib:  
?S: This variable is really the same as archlibexp but may differ on  
?S: those systems using AFS. For extra portability, only this variable  
?S: should be used in makefiles.  
?S:.  
?C:ARCHLIB:  
?C: This variable, if defined, holds the name of the directory in

?C: which the user wants to put architecture-dependent public  
?C: library files for \$package. It is most often a local directory  
?C: such as /usr/local/lib. Programs using this variable must be  
?C: prepared to deal with filename expansion. If ARCHLIB is the  
?C: same as PRIVLIB, it is not defined, since presumably the  
?C: program already searches PRIVLIB.  
?C:.  
?C:ARCHLIB\_EXP:  
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used  
?C: in programs that are not prepared to deal with ~ expansion  
at run-time.  
?C:.  
?H:#\$d\_archlib ARCHLIB "\$sarchlib" /\*\*/  
?H:#\$d\_archlib ARCHLIB\_EXP "\$sarchlibexp" /\*\*/  
?H:.  
?T: tdfmt  
?LINT:change prefixvar  
?LINT:set archlib  
?LINT:set archlibexp  
?LINT:set installarchlib  
: determine where public architecture dependent libraries go  
set archlib archlib  
eval \$prefixit  
: privlib default is /usr/local/lib/\$package/\$version  
: archlib default is /usr/local/lib/\$package/\$version/\$sarchname  
: privlib may have an optional trailing /share.  
tdfmt=`echo \$privlib | \$sed 's,/share\$,,'`  
tdfmt=\$tdfmt/\$sarchname  
case "\$sarchlib" in  
") dfmt=\$tdfmt  
;;  
\*) dfmt="\$sarchlib"  
;;  
esac  
\$cat <<EOM

\$package contains architecture-dependent library files. If you are  
sharing libraries in a heterogeneous environment, you might store  
these files in a separate location. Otherwise, you can just include  
them with the rest of the public library files.

EOM

?X: Force dependency on bin.U  
fn=\$binexp  
fn=d+~  
rp='Where do you want to put the public architecture-dependent libraries?'  
.



```
./getfile
prefixvar=archlib
./setprefixvar
if $test X"$sarchlib" = X"$sprivlib"; then
d_archlib="$undef"
else
d_archlib="$define"
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/archlib.U
```

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?RCS:

?MAKE:d\_inetntop: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetntop:

?S: This variable conditionally defines the HAS\_INETNTOP symbol,

?S: which indicates to the C program that the inet\_ntop() function

?S: is available.

?S:.

?C:HAS\_INETNTOP:

?C: This symbol, if defined, indicates that the inet\_ntop() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetntop HAS\_INETNTOP /\*\*/

?H:.

?LINT:set d\_inetntop

: see if inet\_ntop exists

set inet\_ntop d\_inetntop

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_inetntop.U
```

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_keepsig.U,v \$  
?RCS: Revision 3.0.1.4 1995/07/25 13:57:56 ram  
?RCS: patch56: made cc and ccflags optional dependencies  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/11 15:26:25 ram  
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI  
?RCS:  
?RCS: Revision 3.0.1.2 1994/10/29 16:13:59 ram  
?RCS: patch36: call ./bsd explicitly instead of relying on PATH  
?RCS:  
?RCS: Revision 3.0.1.1 1993/10/16 13:48:47 ram  
?RCS: patch12: comment for SIGNALS\_KEPT was the other way round  
?RCS:  
?RCS:  
Revision 3.0 1993/08/18 12:06:26 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_keepsig: cat Compile rm Guess contains echo n c Setvar run  
?MAKE: -pick add \$@ %<  
?S:d\_keepsig:  
?S: This variable contains the eventual value of the SIGNALS\_KEPT symbol,  
?S: which indicates to the C program if signal handlers need not reinstated  
?S: after receipt of a signal.  
?S:.  
?C:SIGNALS\_KEPT (PERSISTENT\_SIGNAL):  
?C: This symbol is defined if signal handlers needn't be reinstated after  
?C: receipt of a signal.  
?C:.  
?H:#\$d\_keepsig SIGNALS\_KEPT /\*\*/  
?H:.  
?F:!try !try.out  
?LINT:set d\_keepsig  
: see if signals are kept  
val="\$undef";  
echo " "  
echo "Checking to see if signal handlers stick around..." >&4  
\$cat >try.c <<'EOCP'  
foo() {}  
  
int main()  
{  
signal(2, foo);

```

kill(getpid(), 2);
kill(getpid(), 2);
printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
(reported by Xavier LeVouch <xavierl@eiffel.com>)
echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
if $contains abc try.out >/dev/null 2>&1; then
echo "Yes, they do."
val="$define";
else
echo "No, they don't."
fi
else
$echo $n "(I can't seem to compile the test program. Assuming $c"
if ./bsd; then
echo "they do.)"
val="$define"
else
echo "they don't.)"
fi
fi
set d_keepsig
eval $setvar
$rm -f try*

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_keepsig.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: charsize.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:07:13 ram

```

?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:34 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains
the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
for size in 1 2 4 8 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
  STATIC_ASSERT($size == sizeof(foo));
  return 0;
}
EOCP
if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
  echo " cannot compute it." >&4
  dflt=1
  rp="What is the size of a character (in bytes)?"
  ./myread
  charsize="$ans"
  ;;
*)
  case "$size" in
  1) s="";
  *) s='s';
  esac
  echo " $size byte$s." >&4

```

```
charsize=$size
;;
esac
$rm_try
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/charsize.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_tzmin.U,v $
```

```
?RCS: Revision 3.0.1.1 1994/10/29 16:16:58 ram
```

```
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:07:49 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_tzmin:
```

```
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
```

```
?S: tz_minuteswest in time header instead of timezone.
```

```
?S:.
```

```
?C:TZ_MINUTESWEST:
```

```
?C: This
```

```
symbol is defined if this system uses tz_minuteswest
```

```
?C: in time header instead of timezone.
```

```
?C: If not defined, you may have to use struct timeb and ftime() rather
```

```
?C: than the new gettimeofday() system call.
```

```
?C:.
```

```
?H:#$d_tzmin TZ_MINUTESWEST /**/
```

```
?H:.
```

```
?LINT:set d_tzmin
```

```
: see if tz_minuteswest is defined in time header
```

```
echo " "
```

```
val="$undef"
```

```
$cppstdin $cppminus < $timeincl > try 2>&1
```

```
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
```

```

echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
case "$d_tzmin" in
"$undef") echo "(Maybe your system is an USG one after all?)";;
esac
fi
set d_tzmin
eval $setvar
$rm -f try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_tzmin.U

```

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?RCS:

?MAKE:d\_prctl d\_prctl\_set\_name: Inlibc cat Compile run rm\_try

?MAKE: -pick add \$@ %<

?S:d\_prctl:

?S: This variable conditionally defines the HAS\_PRCTL symbol, which

?S: indicates to the C program that the prctl() routine is available.

?S: Note that there are at least two prctl variants: Linux and Irix.

?S: While they are somewhat similar, they are incompatible.

?S:.

?S:d\_prctl\_set\_name:

?S: This variable conditionally defines the HAS\_PRCTL\_SET\_NAME symbol,

?S: which indicates to the C program that the prctl() routine supports

?S: the PR\_SET\_NAME option.

?S:.

?C:HAS\_PRCTL:

?C: This symbol, if defined, indicates that the prctl routine is

?C: available to set process title.

?C: Note that there are at least two

prctl variants: Linux and Irix.

?C: While they are somewhat similar, they are incompatible.

?C:.

?C:HAS\_PRCTL\_SET\_NAME:  
?C: This symbol, if defined, indicates that the prctl routine is  
?C: available to set process title and supports PR\_SET\_NAME.  
?C:.

?H:#\$d\_prctl HAS\_PRCTL /\*\*/  
?H:#\$d\_prctl\_set\_name HAS\_PRCTL\_SET\_NAME /\*\*/

?H:.

?F:!try

?LINT:set d\_prctl

: see if prctl exists

set prctl d\_prctl

eval \$inlibc

: see if prctl supports PR\_SET\_NAME

d\_prctl\_set\_name=\$undef

case \$d\_prctl in

  \$define)

  \$cat >try.c <<EOM

  #ifdef \_\_ANDROID\_\_

  #include <unistd.h>

  #endif

  #include <sys/prctl.h>

int main (int argc, char \*argv[])

{

  return (prctl (PR\_SET\_NAME, "Test"));

  } /\* main \*/

EOM

set try

if eval \$compile\_ok && \$run ./try; then

  echo "Your prctl (PR\_SET\_NAME, ...) works"

  d\_prctl\_set\_name=\$define

  fi

\$rm\_try

::

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_prctl.U

No license file was found, but licenses were detected in source scan.

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:  
?RCS: \$Log: privlib.U,v \$  
?RCS: Revision 3.0.1.4 1995/09/25 09:17:09 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.3 1995/01/30 14:44:23 ram  
?RCS: patch49: can now handle installation prefix changes (from WED)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/08/29 16:31:52 ram  
?RCS: patch32: now uses installation prefix  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:12:34 ram  
?RCS: patch10: added support for /local/lib (WED)  
?RCS: patch10: prompt phrasing made  
more explicit (WED)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:35 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \  
Oldconfig Prefixit test  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:privlib:  
?S: This variable contains the eventual value of the PRIVLIB symbol,  
?S: which is the name of the private library for this package. It may  
?S: have a ~ on the front. It is up to the makefile to eventually create  
?S: this directory while performing installation (with ~ substitution).  
?S:.  
?S:privlibexp:  
?S: This variable is the ~name expanded version of privlib, so that you  
?S: may use it directly in Makefiles or shell scripts.  
?S:.  
?S:installprivlib:  
?S: This variable is really the same as privlibexp but may differ on  
?S: those systems using AFS. For extra portability, only this variable  
?S: should be used in makefiles.  
?S:.  
?C:PRIVLIB:  
?C: This symbol contains the name of the private library for this package.  
?C: The library is  
private in the sense that it needn't be in anyone's  
?C: execution path, but it should be accessible by the world. The program  
?C: should be prepared to do ~ expansion.  
?C:.



?C:PRIVLIB\_EXP:

?C: This symbol contains the ~name expanded version of PRIVLIB, to be used

?C: in programs that are not prepared to deal with ~ expansion at run-time.

?C:.

```
?H:#define PRIVLIB "$privlib" /**/
```

```
?H:#define PRIVLIB_EXP "$privlibexp" /**/
```

?H:.

: determine where private executables go

```
set dflt privlib lib/$package
```

```
eval $prefixit
```

```
$cat <<EOM
```

There are some auxiliary files for \$package that need to be put into a private library directory that is accessible by everyone.

EOM

```
fn=d~+
```

```
rp='Pathname where the private library files will reside?'
```

```
./getfile
```

```
if $test "X$privlibexp" != "X$sansexp"; then
```

```
installprivlib="
```

```
fi
```

```
privlib="$ans"
```

```
privlibexp="$sansexp"
```

```
if $afs; then
```

```
$cat <<EOM
```

Since you are running AFS, I need to distinguish the directory in which

private files reside from the directory in which they are installed

(and from

which they are presumably copied to the former directory by occult means).

EOM

```
case "$installprivlib" in
```

```
*) dflt=`echo $privlibexp | sed 's#^/afs/#/afs/#^';`
```

```
*) dflt="$installprivlib";;
```

```
esac
```

```
fn=de~
```

```
rp='Where will private files be installed?'
```

```
./getfile
```

```
installprivlib="$ans"
```

```
else
```

```
installprivlib="$privlibexp"
```

```
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

```
5.32.1~rc1/dist/U/privlib.U
```

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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:37:12 ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1 1995/07/25 13:58:26 ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:44 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3 /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
```

```

#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
    if(O_RDONLY);
#ifdef O_TRUNC
    exit(0);
#else
    exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
    $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
    h_sysfile=true;
    echo "<sys/file.h> defines the
O_* constants..." >&4
    if ./open3; then
        echo "and you have the 3 argument form of open()." >&4
        val="$define"
    else
        echo "but not the 3 argument form of open(). Oh, well." >&4
        val="$undef"
    fi
elif $test `./findhdr fcntl.h` && \
    $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
    h_fcntl=true;
    echo "<fcntl.h> defines the O_* constants..." >&4
    if ./open3; then
        echo "and you have the 3 argument form of open()." >&4
        val="$define"
    else
        echo "but not the 3 argument form of open(). Oh, well." >&4
        val="$undef"
    fi
else
    val="$undef"
    ./warn "I can't find the O_* constant definitions! You got problems."
fi
set d_open3
eval $setvar
$rm -f open3*

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/dist/U/d\_open3.U

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?RCS: \$Id: d\_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp \$

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?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: d\_gconvert.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:33:38 ram

?RCS: patch61: integrated new unit from perl5

?RCS:

?RCS: Revision 3.0.1.2 1995/07/25 13:55:59 ram

?RCS: patch56: improved comments about the Gconvert macro (ADO)

?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:12:51 ram

?RCS: patch36:

created by ADO

?RCS:

?MAKE:d\_Gconvert: \

Compile cat Inlibc rm \_o rm\_try i\_stdlib d\_qgcvt run \

uselongdouble d\_longdbl d\_PRIgldbl sPRIgldbl

?MAKE: -pick add \$@ %<

?S:d\_Gconvert:

?S: This variable holds what Gconvert is defined as to convert

?S: floating point numbers into strings. By default, Configure

?S: sets this macro to use the first of gconvert, gcvt, or sprintf

?S: that pass sprintf-%g-like behavior tests. If perl is using

?S: long doubles, the macro uses the first of the following

?S: functions that pass Configure's tests: qgcvt, sprintf (if

?S: Configure knows how to make sprintf format long doubles--see

?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).

?S: The gconvert\_preference and gconvert\_ld\_preference variables

?S: can be used to alter Configure's preferences, for doubles and

?S: long doubles, respectively. If present, they contain a

?S: space-separated list of one or more of the above function

?S: names in the order they should be tried.

?S:

?S: d\_Gconvert

may be set to override Configure with a platform-specific function. If this function expects a double, a different value may need to be set by the uselongdouble.cbu call-back unit so that long doubles can be formatted without loss of precision.

?S:.

?C:Gconvert:

?C: This preprocessor macro is defined to convert a floating point number to a string without a trailing decimal point. This emulates the behavior of sprintf("%g"), but is sometimes much more efficient. If gconvert() is not available, but gcvt() drops the trailing decimal point, then gcvt() is used. If all else fails, a macro using sprintf("%g") is used. Arguments for the Gconvert macro are: value, number of digits, whether trailing zeros should be retained, and the output buffer.

?C: The usual values are:

?C: d\_Gconvert='gconvert((x),(n),(t),(b))'

?C: d\_Gconvert='gcvt((x),(n),(b))'

?C: d\_Gconvert='sprintf((b),"%.\*g",(n),(x))'

?C: The last two assume trailing zeros should not be kept.

?C:.

?H:#define Gconvert(x,n,t,b) \$d\_Gconvert

?H:.

?T: xxx\_list xxx\_convert xxx\_ld\_list

?F:!try

?LINT:extern gconvert\_preference

?LINT:extern gconvert\_ld\_preference

: Check how to convert floats to strings.

```

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgdbl" in
"$define") echo "#define HAS_PRIgdbl" >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
const char *myname = "gconvert";

```

```

#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPED long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgdbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgdbl,(n),(x))
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g", (n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g", (n),(x))
#endif
const char *myname = "sprintf";
#endif

#ifdef DOUBLETYPED
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPED long double
#else
#define DOUBLETYPED double
#endif
#endif

#include <stdio.h>

#ifdef _STDLIB
#include <stdlib.h>
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
    if (strcmp(expect, got)) {
        printf("%s oddity: Expected %s, got %s\n",
            myname, expect, got);
        exit(1);
    }
}

```

```

int main()
{
char buf[64];
buf[63] = '\0';

/* This must be 1st test on (which?) platform */
/* Alan Burlison <AlanBurlsin@unn.unisys.com> */
Gconvert((DOUBLETYP)0.1, 8, 0, buf);
checkit("0.1", buf);

Gconvert((DOUBLETYP)0.01, 8, 0, buf);
checkit("0.01", buf);

Gconvert((DOUBLETYP)0.001,
8, 0, buf);
checkit("0.001", buf);

Gconvert((DOUBLETYP)0.0001, 8, 0, buf);
checkit("0.0001", buf);

Gconvert((DOUBLETYP)0.00009, 8, 0, buf);
if (strlen(buf) > 5)
    checkit("9e-005", buf); /* for Microsoft ?? */
else
    checkit("9e-05", buf);

Gconvert((DOUBLETYP)1.0, 8, 0, buf);
checkit("1", buf);

Gconvert((DOUBLETYP)1.1, 8, 0, buf);
checkit("1.1", buf);

Gconvert((DOUBLETYP)1.01, 8, 0, buf);
checkit("1.01", buf);

Gconvert((DOUBLETYP)1.001, 8, 0, buf);
checkit("1.001", buf);

Gconvert((DOUBLETYP)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYP)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYP)1.000001, 8, 0, buf);
checkit("1.000001", buf);

```

```

Gconvert((DOUBLETYP)0.0, 8, 0, buf);
checkit("0", buf);

Gconvert((DOUBLETYP)-1.0, 8, 0, buf);
checkit("-1", buf);

/* Some Linux gcvt's give 1.e+5 here. */
Gconvert((DOUBLETYP)100000.0, 8, 0, buf);
checkit("100000", buf);

/* Some Linux gcvt's give -1.e+5
here. */
Gconvert((DOUBLETYP)-100000.0, 8, 0, buf);
checkit("-100000", buf);

Gconvert((DOUBLETYP)123.456, 8, 0, buf);
checkit("123.456", buf);

/* Testing of 1e+129 in bigintpm.t must not get extra '!' here. */
Gconvert((DOUBLETYP)1e34, 8, 0, buf);
/* 34 should be enough to scare even long double
* places into using the e notation. */
if (strlen(buf) > 5)
    checkit("1e+034", buf); /* for Microsoft */
else
    checkit("1e+34", buf);

/* For Perl, if you add additional tests here, also add them to
* t/base/num.t for benefit of platforms not using Configure or
* overriding d_Gconvert */

exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -luch
stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
    case $xxx_convert in
        gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
        *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
    esac
done

```



```

    esac
done
: then add any others
for xxx_convert in gconvert gcvf printf; do
    case "$xxx_list" in
        *$xxx_convert*) ;;
        *) xxx_list="$xxx_list $xxx_convert" ;;
    esac
done

case "$d_longdbl$uselongdouble" in
"$define$define")
: again, add preferred functions to our list first
xxx_ld_list=""
for xxx_convert in $gconvert_ld_preference; do
    case $xxx_convert in
        qgcvf|gcvf|gconvert|printf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
        *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
    esac
done
: then add qgcvf, printf--then, in xxx_list order, gconvert and gcvf
for xxx_convert in qgcvf printf $xxx_list; do
    case "$xxx_ld_list" in
        $xxx_convert*|*" $xxx_convert"*) ;;
        *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
    esac
done
: if printf cannot do long doubles, move it to the end
if test "$d_PRIgdbl" != "$define"; then
    xxx_ld_list=""echo $xxx_ld_list|sed s/printf/^ printf"
fi
: if no qgcvf, remove it
if test "$d_qgcvf" != "$define"; then
    xxx_ld_list=""echo $xxx_ld_list|sed s/qgcvf/^"
fi
: use the ld_list
xxx_list="$xxx_ld_list"
;;
esac

for xxx_convert in $xxx_list; do
    echo "Trying $xxx_convert..."
?X: Do NOT use $rm_try here, as we need to keep try.c
$rm -f try try$_o core
set try -DTRY_$xxx_convert
if eval $compile; then
    echo "$xxx_convert() found." >&4
    if $run ./try; then

```

```

    echo "I'll use $xxx_convert to convert floats into a string." >&4
    break;
else
    echo "...But $xxx_convert didn't work as I expected."
    xxx_convert=""
fi
else
    echo
"$xxx_convert NOT found." >&4
    xxx_convert=""
fi
done

if test X$xxx_convert = X; then
    echo "*** WHOA THERE!!! ***" >&4
    echo "None of ($xxx_list) seemed to work properly. I'll use sprintf." >&4
    xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
"$define$define$define")
    d_Gconvert="sprintf((b),\"%.*\">$sPRIgldbl,(n),(x))" ;;
"$define$define$undef")
    d_Gconvert='sprintf((b),\"%.*g\",(n),(double)(x))' ;;
*) d_Gconvert='sprintf((b),\"%.*g\",(n),(x))' ;;
esac
;;
esac

fi
$rm_try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_gconvert.U
```

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?RCS: of the source tree for dist 3.0.

?RCS:  
?MAKE:d\_mbrlen: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_mbrlen:  
?S: This variable conditionally defines the HAS\_MBRLLEN symbol if the  
?S: mbrlen() routine is available to be used to get the length of  
?S: multi-byte character strings.  
?S:.  
?C:HAS\_MBRLLEN:  
?C: This symbol, if defined, indicates that the mbrlen routine is  
?C: available to get the length of multi-byte character strings.  
?C:.  
?H:#\$d\_mbrlen HAS\_MBRLLEN /\*\*/  
?H:.  
?LINT: set d\_mbrlen  
: see if mbrlen exists  
set mbrlen d\_mbrlen  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_mbrlen.U

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?RCS:

?MAKE:d\_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_logb:

?S: This variable conditionally defines the HAS\_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS\_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d\_logb HAS\_LOGB /\*\*/  
?H:.

?LINT:set d\_logb

: see if logb exists

set logb d\_logb

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_logb.U

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:42 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
?C: <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_inttypes.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: mailfile.U,v \$

?RCS: Revision 3.0.1.2 1994/10/29 16:24:57 ram

?RCS: patch36: the Loc unit was missing from the dependency line

?RCS:

?RCS: Revision 3.0.1.1 1993/12/15 08:22:08 ram

?RCS: patch15: now also looks under /var/mail for BSD/386

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:11 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:mailfile: Myread Oldconfig Filexp Loc

?MAKE: -pick add \$@ %<

?S:mailfile:

?S: This variable contains

the eventual value of the MAILFILE symbol,

?S: which contains an interpretable name of the mail spool file for the

?S: current user.

?S:.

?C:MAILFILE:

?C: This symbol contains the interpretable name of the mail spool file

?C: for the current user. The program must be prepared to substitute

?C: the HOME directory for %~, and the login id for %L.

?C:.

?H:#define MAILFILE "\$mailfile" /\*\*/

?H:.

: determine where mail is spooled

case "\$mailfile" in

)

dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`

case "\$dflt" in

XXX) dflt='%~/mailbox';;

\*) dflt="\$dflt/%L";;

esac

;;

\*) dflt="\$mailfile"

;;

esac

cat <<'EOM'

In the following question, you may use %~ to represent the user's home directory, and %L to represent a users name.

EOM

rp='In which file is yet-to-be-read mail spooled? (~name ok)'

./myread

mailfile=`./filexp "\$ans"`

Found in path(s):

\*/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/mailfile.U

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \  
ivdformat uvuformat test echo

?MAKE: -pick add \$@ %<

?S:gidformat:

?S: This variable contains the format string used for printing a Gid\_t.

?S:.

?C:Gid\_t\_f:

?C: This symbol defines the format string used for printing a Gid\_t.

?C:.

?H:#define Gid\_t\_f \$gidformat /\*\*/

?H:.

: Check format string for GID

echo " "

\$echo "Checking the format string to be used for gids..." >&4

case "\$gidsign" in

-1) if \$test X"\$gidsize" = X"\$ivsize"; then

gidformat="\$ivdformat"

else

if \$test X"\$gidsize" = X"\$longsize"; then

gidformat="ld"

else

if \$test X"\$gidsize" = X"\$intsize"; then

gidformat="d"

else

if \$test X"\$gidsize"

= X"\$shortsize"; then

gidformat="hd"

fi

fi

fi

```

fi
;;
*) if $test X"$gidsize" = X"$svsize"; then
  gidformat="$svuformat"
else
  if $test X"$gidsize" = X"$longsize"; then
    gidformat="lu"
  else
    if $test X"$gidsize" = X"$intsize"; then
      gidformat="u"
    else
      if $test X"$gidsize" = X"$shortsize"; then
        gidformat="hu"
      fi
    fi
  fi
fi
fi
fi
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/typedefs/gidf.U

```

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```

?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1 1993/09/13 16:03:11 ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:36 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.

```

?S:  
?C:HAS\_MEMSET  
(MEMSET):  
?C: This symbol, if defined, indicates that the memset routine is available  
?C: to set blocks of memory.  
?C:.  
?H:#\$d\_memset HAS\_MEMSET /\*\*/  
?H:.  
?LINT:set d\_memset  
: see if memset exists  
set memset d\_memset  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_memset.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_keypad.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_keypad.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:05:50 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_keypad: cat cc termplib Setvar  
?MAKE: -pick add \$@ %<  
?S:d\_keypad:  
?S: This variable controls the definition of HAS\_CURSES\_KEYPAD,  
?S: which tells the application that the keypad() curses function  
?S: is available.  
?S:.  
?C:HAS\_CURSES\_KEYPAD:  
?C: This symbol indicates the availability of the keypad() function  
?C: of the curses library.  
?C:.  
?H:#\$d\_keypad  
HAS\_CURSES\_KEYPAD /\*\*/  
?H:.  
?LINT:set d\_keypad  
: check for the "keypad()" function in the curses library



```

echo " "
case "$termLib" in
")
echo "You don't have a curses library, so I won't waste time looking" >&4
echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termLib) for the keypad() function..." >&4
$cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
keypad(stdscr, TRUE);
exit(0);
}
EOCP
if $cc c_keypad.c >c_keypad.out 2>&1 ; then
val=$define
echo "It appears to have the keypad() function."
else
val=$undef
echo "Your curses library doesn't appear to have the keypad() function."
fi
esac
set d_keypad
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_keypad.U

```

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_\_fwalk: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_\_fwalk:

?S: This variable conditionally defines HAS\_\_FWALK if \_fwalk() is

?S: available to apply a function to all the file handles.

?S:.

?C:HAS\_\_FWALK:

?C: This symbol, if defined, indicates that the \_fwalk system call is

?C: available to apply a function to all the file handles.

?C:.

?H:#\$d\_\_fwalk HAS\_\_FWALK /\*\*/

?H:.

?LINT:set d\_\_fwalk

: see if \_\_fwalk exists

set fwalk d\_\_fwalk

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_\_fwalk.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999, Andy Dougherty

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?RCS:

?RCS: \$Log: vendorhtml3dir.U,v \$

?RCS: Revision 1.1 1999/07/08 18:32:57 doughera

?RCS: Initial revision

?RCS:

?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \

Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed

?MAKE: -pick add \$@ %<

?Y:TOP

?S:vendorhtml3dir:

?S: This variable contains the name of the directory for html

?S: library pages. It may have a ~ on the front.

?S: The standard distribution will put nothing

in this directory.

?S: Vendors who distribute perl may wish to place their own

?S: html pages for modules and extensions in this directory with

?S: MakeMaker Makefile.PL INSTALLDIRS=vendor

?S: or equivalent. See INSTALL for details.

?S:.

?S:vendorhtml3direxp:

?S: This variable is the ~name expanded version of vendorhtml3dir, so that you

?S: may use it directly in Makefiles or shell scripts.

?S:.

?D:installvendorhtml3dir="

?S:installvendorhtml3dir:

?S: This variable is really the same as vendorhtml3direxp but may differ on

?S: those systems using AFS. For extra portability, only this variable

?S: should be used in makefiles.

?S:.

?LINT:change prefixvar

?LINT:set installvendorhtml3dir

: Set the vendorhtml3dir variables

```
case "$vendorprefix" in
```

```
) vendorhtml3dir="
```

```
vendorhtml3direxp="
```

```
;;
```

\*) : determine where vendor-supplied module html pages go.

: There is no standard location, so try to copy the previously-selected

: directory structure for the core html pages.

: XXX Better default

suggestions would be welcome.

```
case "$vendorhtml3dir" in
```

```
) dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
```

```
*) dflt=$vendorhtml3dir ;;
```

```
esac
```

```
case "$dflt" in
```

```
"|" ) dflt=none ;;
```

```
esac
```

```
fn=dn+~
```

```
rp='Pathname for the vendor-supplied html pages?'
```

```
./getfile
```

```
vendorhtml3dir="$ans"
```

```
vendorhtml3direxp="$ansexp"
```

```
;;
```

```
esac
```

: Use ' ' for none so value is preserved next time through Configure

```
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
```

```
prefixvar=vendorhtml3dir
```

```
./installprefix
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorhtml3dir.U
```

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?RCS:

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?RCS:

?RCS: \$Log: d\_scannl.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:41:27 ram

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.1 1995/07/25 13:59:12 ram

?RCS: patch56: made cc and ccflags optional dependencies

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:00 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: Does the scanf routine read "\n" correctly ? This is was not

?X: the case on AIX...

?X:

?MAKE:d\_scannl: cat +cc +ccflags rm Setvar

?MAKE: -pick add \$@ %<

?S:d\_scannl:

?S: This

variable conditionally defines SCAN\_NL, which indicates

?S: wether the C library routines scanf() and friends can deal with

?S: a '\n' in the input correctly. They do most of the time.

?S:.

?C:SCAN\_NL:

?C: This symbol is defined if the C library routines scanf() and friends

?C: can deal with a '\n' in the input correctly, so that you can say

?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.

?C:.

?H:#\$d\_scannl SCAN\_NL /\* scanf("%d\n") works \*/

?H:.

?F:!try

?LINT:set d\_scannl

: does scanf handle "\n" correctly ?

echo " "

val="\$define"

?X: I really want to say "\n" instead of '\n', because I am referring

?X: to the string given as argument to scanf().

echo 'Let''''s see if scanf() handles "\\n" correctly...' >&4

\$cat >try.c <<'EOCP'

```
int main()
{
int i = 0, j = 0;
scanf("%d\n%d", &i, &j);
if (j != 3)
exit(1);
exit(0);
}
```

```

EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
  if ./try <<'EOD'
  2
  3
EOD
  then
    echo "Yes, it does."
  else
    echo "No, it doesn't."
    val="$undef"
  fi
else
  echo
  "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_scannl.U
```

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?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/randbits.U
```

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?RCS: \$Id: d\_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_msgrcv.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:40 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_msgrcv: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_msgrcv:  
?S: This variable conditionally defines the HAS\_MSGRCV symbol, which  
?S: indicates to the C program that the msgrcv() routine is available.  
?S:.  
?C:HAS\_MSGRCV:  
?C: This symbol, if defined, indicates that the msgrcv() routine is  
?C: available to extract a message from the message queue.  
?C:.  
?H:#\$d\_msgrcv  
HAS\_MSGRCV /\*\*/  
?H:.  
?LINT:set d\_msgrcv  
: see if msgrcv exists  
set msgrcv d\_msgrcv  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_msgrcv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: make.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1996, Andy Dougherty  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: make.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 16:09:40 ram  
?RCS: patch61: created  
?RCS:

```

?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE. Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#' #
If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line beginning with @echo. Metaconfig
?X: will think that's a command like @if or @end.
$sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X @echo 'maketemp="\$(MAKE)'"
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
case "`$make -f testmake.mak 2>/dev/null" in
*maketemp=*) make_set_make='#' ;;
*) make_set_make="MAKE=$make" ;;
esac
$rm
-f testmake.mak
;;
esac
case "$make_set_make" in
'#) echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/make.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sunmath.U,v \$

?RCS:

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?RCS:

?MAKE:i\_sunmath: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sunmath:

?S: This variable conditionally defines the I\_SUNMATH symbol, and indicates

?S: whether a C program should include <sunmath.h>.

?S:.

?C:I\_SUNMATH:

?C: This symbol, if defined, indicates that <sunmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sunmath I\_SUNMATH /\*\*/

?H:.

?LINT:set i\_sunmath

: see if this is a sunmath.h system

set sunmath.h i\_sunmath

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_sunmath.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp \$

?RCS:

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?RCS:

?RCS: \$Log: intsize.U,v \$

?RCS: Revision 3.0.1.2 1997/02/28 15:55:26 ram

?RCS: patch61: avoid prompting the user if the test runs ok

?RCS: patch61: moved code from longsize.U into there

?RCS: patch61: new tests for shortsize as well



?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:21:06 ram  
?RCS: patch36: added ?F: line for metalint file checking  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:52 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:intsize longsize  
shortsize: Compile Myread cat run i\_stdlib rm\_try  
?MAKE: -pick add \$@ %<  
?S:intsize:  
?S: This variable contains the value of the INTSIZE symbol, which  
?S: indicates to the C program how many bytes there are in an int.  
?S:.  
?S:longsize:  
?S: This variable contains the value of the LONGSIZE symbol, which  
?S: indicates to the C program how many bytes there are in a long.  
?S:.  
?S:shortsize:  
?S: This variable contains the value of the SHORTSIZE symbol which  
?S: indicates to the C program how many bytes there are in a short.  
?S:.  
?C:INTSIZE:  
?C: This symbol contains the value of sizeof(int) so that the C  
?C: preprocessor can make decisions based on it.  
?C:.  
?C:LONGSIZE:  
?C: This symbol contains the value of sizeof(long) so that the C  
?C: preprocessor can make decisions based on it.  
?C:.  
?C:SHORTSIZE:  
?C: This symbol contains the value of sizeof(short) so that the C  
?C: preprocessor can make decisions based on it.  
?C:.  
?H:#define INTSIZE \$intsize /\*\*/  
?H:#define LONGSIZE \$longsize /\*\*/  
?H:#define  
SHORTSIZE \$shortsize /\*\*/  
?H:.  
?F:!try  
: check for lengths of integral types  
echo " "  
case "\$intsize" in  
")  
echo "Checking to see how big your integers are..." >&4  
\$cat >try.c <<EOCP  
#include <stdio.h>  
#\$i\_stdlib I\_STDLIB

```

#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
#ifdef INTSIZE || intsize
printf("intsize=%d;\n", (int)sizeof(int));
#endif
#ifdef LONGSIZE || longsize
printf("longsize=%d;\n", (int)sizeof(long));
#endif
#ifdef SHORTSIZE || shortsize
printf("shortsize=%d;\n", (int)sizeof(short));
#endif
exit(0);
}
EOCP
set try
if eval $compile_ok && $run ./try > /dev/null; then
eval ` $run ./try `
#ifdef INTSIZE || intsize
echo "Your integers are $intsize bytes long."
#endif
#ifdef LONGSIZE || longsize
echo "Your long integers are $longsize bytes long."
#endif
#ifdef SHORTSIZE || shortsize
echo "Your short integers are $shortsize bytes long."
#endif
else
$cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
in your system or libraries, and
you really ought to fix it. Still, I'll try anyway.)
!
EOM
#ifdef INTSIZE || intsize
dflt=4
rp="What is the size of an integer (in bytes)?"
./myread
intsize="$ans"
#endif
#ifdef LONGSIZE || longsize
dflt=$intsize
rp="What is the size of a long integer (in bytes)?"
./myread

```

```

longsize="$ans"
@end
@if SHORTSIZE || shortsize
dflt=2
rp="What is the size of a short integer (in bytes)?"
./myread
shortsize="$ans"
@end
fi
;;
esac
$rm_try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/a_dvisory/intsize.U
```

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?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_quad quadtype uquadtype quadkind: \

longsize intsize d\_longlong longlongsize d\_int64\_t \

Inhdr Setvar

?MAKE: -pick add \$@ %<

?S:d\_quad:

?S: This variable, if defined, tells that there's a 64-bit integer type,

?S: quadtype.

?S:.

?S:quadtype:

?S: This variable defines Quad\_t to be something like long, int,

?S: long long, int64\_t, or whatever type is used for 64-bit integers.

?S:.

?S:quadkind:

?S: This variable, if defined, encodes the type of a quad:

?S: 1 = int, 2 = long, 3 = long long, 4 = int64\_t.

?S:.

?S:uquadtype:

?S: This variable defines Uquad\_t to be something like unsigned long,

?S: unsigned int, unsigned long long, uint64\_t, or whatever type is

?S: used for 64-bit integers.

?S:.

?C:HAS\_QUAD:

?C: This

```

symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS__INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:# define Quad_t $quadtype /**/
?H:?%<:# define Uquad_t $uquadtype /**/
?H:?%<:# define QUADKIND $quadkind /**/
?H:?%<:# define QUAD_IS_INT 1
?H:?%<:# define QUAD_IS_LONG 2
?H:?%<:# define QUAD_IS_LONG_LONG 3
?H:?%<:# define QUAD_IS_INT64_T 4
?H:?%<:# define QUAD_IS__INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

```

```

case "$intsize" in
8) val=int
set quadtype
eval $setvar
val="unsigned int"
set uquadtype
eval $setvar
quadkind=1
;;
*) case "$longsize" in
8)
val=long
set quadtype
eval $setvar
val="unsigned long"
set uquadtype
eval $setvar
quadkind=2
;;
*) case "$d_longlong:$longlongsize" in
define:8)
val="long long"
set quadtype
eval $setvar

```

```

val="unsigned long long"
set uquadtype
eval $setvar
quadkind=3
;;
*) case "$d_int64_t" in
define)
val=int64_t
set quadtype
eval $setvar
val=uint64_t
set uquadtype
eval $setvar
quadkind=4
;;
esac
;;
esac
;;
esac
;;
esac

```

```

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
d_quad="$sundef"
;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
d_quad="$sdefine"
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/a_dvisory/quadtype.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_pwrite.U,v \$

?RCS:  
?MAKE:d\_pwrite: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_pwrite:  
?S: This variable conditionally defines the HAS\_PWRITE symbol, which  
?S: indicates to the C program that the pwrite() routine is available.  
?S:.  
?C:HAS\_PWRITE :  
?C: This symbol, if defined, indicates that the pwrite routine is  
?C: available to perform writes on a file descriptor at a given offset.  
?C:.  
?H:#\$d\_pwrite HAS\_PWRITE /\*\*/  
?H:.  
?LINT:set d\_pwrite  
: see if pwrite  
exists  
set pwrite d\_pwrite  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_pwrite.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strdup.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_strdup.U,v \$  
?RCS: Revision 3.0.1.1 1993/12/15 08:21:41 ram  
?RCS: patch15: created  
?RCS:  
?MAKE:d\_strdup: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_strdup:  
?S: This variable conditionally defines HAS\_STRDUP if strdup() is  
?S: available to duplicate strings in memory.  
?S:.  
?C:HAS\_STRDUP:  
?C: This symbol, if defined, indicates that the strdup routine is  
?C: available to duplicate strings in memory. Otherwise, roll up  
?C: your own...

```
?C:
?H:#$d_strdup HAS_STRDUP /**/
?H:
?LINT:set
d_strdup
: see if strdup exists
set strdup d_strdup
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_strdup.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:23 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_inetd: cat test package Myread Setvar
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
?C: in charge of the
initial socket connection. The file descriptors 0 and
?C: 1 have been dup( )ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:
?H:#$d_inetd USE_INETD /**/
?H:
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
```

```
) if $test -f /etc/inetd.conf; then
```

```
  $cat <<EOM
```

Your system provides a so called "Internet super-server", the inetd daemon. Network services like ftp or rlogin are usually handled via ftpd and rlogind daemons. Without inetd, these daemons must always be running for the service to be on. On the contrary, inetd listens to specific ports defined in file /etc/inetd.conf and will run the appropriate daemon upon request. This scheme avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for \$package will be done using inetd, in which case you will have to edit /etc/inetd.conf to add some specific informations.

```
EOM
```

```
  dflt=y
```

```
  else
```

```
  $cat
```

```
<<EOM
```

I do not see any trace of a configuration file for inetd, hence I assume your system does not support the so called "Internet super-server". This means \$package will need to have a daemon process running on this machine to allow network connections.

```
EOM
```

```
fi;;
```

```
*) case "$d_inetd" in
```

```
  "$define") dflt=y;;
```

```
  esac;;
```

```
esac
```

```
rp='Do you wish to use inetd for network connections?'
```

```
  ./myread
```

```
  val="$undef"
```

```
  case "$ans" in
```

```
  y*|Y*) val="$define";;
```

```
  esac
```

```
  set d_inetd
```

```
  eval $setvar
```

```
Found in path(s):
```

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_inetd.U
```

```
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
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```



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?RCS:

?RCS: \$Log: d\_usendir.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:47:34 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS: patch61: likewise for .o replaced by \$\_o

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:52 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_usendir i\_ndir ndirlib: test Setvar Findhdr d\_readdir \_a

?MAKE: -pick add \$@ %<

?S:d\_usendir:

?S: This variable conditionally defines the EMULATE\_NDIR symbol, which

?S: indicates

to the C program that it should compile the ndir.c code

?S: provided with the package.

?S:.

?S:i\_ndir (d\_libndir):

?S: This variable conditionally defines the I\_NDIR symbol, which

?S: indicates to the C program that it should include the system's

?S: version of ndir.h, rather than the one with this package.

?S:.

?S:ndirlib:

?S: The name of the library to include at linking stage to resolve ndir

?S: symbols. It is up to the makefile to use this value.

?S:.

?C:EMULATE\_NDIR (USENDIR):

?C: This symbol, if defined, indicates that the program should compile

?C: the ndir.c code provided with the package.

?C:.

?C:I\_NDIR (LIBNDIR):

?C: This symbol, if defined, indicates that the program should include the

?C: system's version of ndir.h, rather than the one with this package.

?C:.

?H:#\$d\_usendir EMULATE\_NDIR /\*\*/

?H:#\$i\_ndir I\_NDIR /\*\*/

?H:.

?T:val2

?LINT: set d\_usendir i\_ndir

: see if there are directory access routines out there

echo " "

if \$test `./findhdr ndir.h` && \

( \$test -r /usr/lib/libndir\$\_a

```

|| $test -r /usr/local/lib/libndir$_a ); then
echo "Ndir library found." >&4
if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
else
  ndirlib="/usr/local/lib/libndir$_a"
fi
val2="$define"
val="$undef"
else
  ndirlib="
val2="$undef"
case "$d_readdir" in
"$define")
echo "No ndir library found, but you have readdir() so we'll use that." >&4
val="$undef";
;;
*)
echo "No ndir library found." >&4
val="$define"
;;
esac
fi
set d_usendir
eval $setvar
val="$val2"
set i_ndir
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_usendir.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Ins.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: Ins.U,v \$

?RCS: Revision 3.0.1.1 1994/06/20 07:05:52 ram

```

?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
links (if they are supported). It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
echo "Symbolic links are supported." >&4
lns="$ln -s"
else
echo "Symbolic links are NOT supported." >&4
lns="$ln"
fi
$rm -f blurfl sym

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/lns.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:46:00 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:08:04 ram
?RCS: patch16: can now safely declare private nm_extract in dependencies

```

?RCS:  
?RCS: Revision 3.0 1993/08/18 12:07:26 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_socket d\_oldsock d\_sockpair socketlib sockethdr: contains libc \  
echo n c nm\_opt nm\_extract Inlibc Csym \_a  
?MAKE: -pick add \$@ %<  
?S:d\_socket:  
?S: This  
variable conditionally defines HAS\_SOCKET, which indicates  
?S: that the BSD socket interface is supported.  
?S:.  
?S:d\_sockpair:  
?S: This variable conditionally defines the HAS\_SOCKETPAIR symbol, which  
?S: indicates that the BSD socketpair() is supported.  
?S:.  
?S:d\_oldsock:  
?S: This variable conditionally defines the OLDSOCKET symbol, which  
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.  
?S:.  
?S:socketlib:  
?S: This variable has the names of any libraries needed for socket support.  
?S:.  
?S:sockethdr:  
?S: This variable has any cpp -I flags needed for socket support.  
?S:.  
?C:HAS\_SOCKET (SOCKET):  
?C: This symbol, if defined, indicates that the BSD socket interface is  
?C: supported.  
?C:.  
?C:HAS\_SOCKETPAIR (SOCKETPAIR):  
?C: This symbol, if defined, indicates that the BSD socketpair() call is  
?C: supported.  
?C:.  
?C:USE\_OLDSOCKET (OLDSOCKET):  
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface  
?C: is supported instead of the 4.2/4.3 BSD  
socket interface. For instance,  
?C: there is no setsockopt() call.  
?C:.  
?H:#\$d\_socket HAS\_SOCKET /\*\*/  
?H:#\$d\_sockpair HAS\_SOCKETPAIR /\*\*/  
?H:#\$d\_oldsock USE\_OLDSOCKET /\*\*/  
?H:.  
?T:val  
?LINT:use libc  
?LINT:set d\_sockpair  
: see whether socket exists

```

socketlib="
sockethdr="
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
echo "Looks like you have Berkeley networking support." >&4
d_socket="$define"
?X: now check for advanced features
if set setsockopt val -f; eval $csym; $val; then
d_oldsock="$undef"
else
echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
d_oldsock="$define"
fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
if $contains socklib libc.list >/dev/null 2>&1; then
echo "Looks like you have Berkeley networking support." >&4
d_socket="$define"
: we will have
to assume that it supports the 4.2 BSD interface
d_oldsock="$undef"
else
echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
if test -f /usr/lib/libnet$_a; then
?X: space between two '(' needed for ksh
( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) || \
ar t /usr/lib/libnet$_a 2>/dev/null >> libc.list
if $contains socket libc.list >/dev/null 2>&1; then
echo "...but the Wollongong group seems to have hacked it in." >&4
socketlib="-lnet"
sockethdr="-I/usr/netinclude"
d_socket="$define"
?X: now check for advanced features
if $contains setsockopt libc.list >/dev/null 2>&1; then
d_oldsock="$undef"
else
echo "...using the old 4.1c interface, rather than 4.2" >&4
d_oldsock="$define"
fi
else
echo "or even in libnet$_a, which is peculiar." >&4
d_socket="$undef"
d_oldsock="$undef"
fi

```

```
else
  echo "or anywhere else I see." >&4
  d_socket="$undef"
  d_oldsock="$undef"
fi
fi
fi
```

```
@if
HAS_SOCKETPAIR || d_socketpair
: see if socketpair exists
set socketpair d_socketpair
eval $inlibc
```

```
@end
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_socket.U
```

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?RCS:

?RCS: \$Log: i\_termio.U,v \$

?RCS: Revision 3.0.1.4 1994/10/29 16:20:54 ram

?RCS: patch36: call ./usg and ./Cpplib explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0.1.3 1994/08/29 16:26:38 ram

?RCS: patch32: don't include all three I\_\* symbols in config.h

?RCS: patch32: (had forgotten to undo this part last time)

?RCS:

?RCS: Revision 3.0.1.2 1994/05/13 15:25:03 ram

?RCS: patch27: undone ADO's fix in previous patch since it was useless

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 15:05:23

ram

?RCS: patch23: now include all three defines in config.h (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:08:44 ram

?RCS: Baseline for dist 3.0 netwide release.

```

?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>. There are also differences in
?C: the ioctl() calls that depend on the value of
?C: this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>. There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO /**/
?H:#$i_termios I_TERMIOS /**/
?H:#$i_sgtty I_SGTTY /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
set tcsetattr i_termios

```

```

eval $inlibc
val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cpysym pyr; then
case "`/bin/universe`" in
ucb) if $test `./findhdr
sgtty.h`; then
val2="$define"
echo "<sgtty.h> found." >&4
else
echo "System is pyramid with BSD universe."
./warn "<sgtty.h> not found--you could have problems."
fi;;
*) if $test `./findhdr termio.h`; then
val="$define"
echo "<termio.h> found." >&4
else
echo "System is pyramid with USG universe."
./warn "<termio.h> not found--you could have problems."
fi;;
esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
elif ./usg; then
if $test `./findhdr termio.h`; then
echo "<termio.h> found." >&4
val="$define"
elif $test `./findhdr sgtty.h`; then
echo "<sgtty.h> found." >&4
val2="$define"
else
./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
fi
else
if $test `./findhdr sgtty.h`; then
echo "<sgtty.h> found." >&4
val2="$define"
elif $test `./findhdr termio.h`; then
echo "<termio.h> found." >&4
val="$define"
else
./warn "Neither <sgtty.h> nor <termio.h> found--cross
fingers!"
fi
fi;;
esac

```



```
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_termio.U
```

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: bin.U,v \$

?RCS: Revision 3.0.1.4 1995/09/25 09:15:32 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.3 1995/01/30 14:32:40 ram

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS: Revision 3.0.1.2 1994/08/29 16:05:28 ram

?RCS: patch32: now uses installation prefix

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 15:56:51 ram

?RCS: patch10: made prompting more explicit (WAD)

?RCS:

?RCS: Revision 3.0 1993/08/18

12:05:26 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test

?MAKE: -pick add \$@ %<

?Y:TOP

?S:bin:

?S: This variable holds the name of the directory in which the user wants

?S: to put publicly executable images for the package in question. It

?S: is most often a local directory such as /usr/local/bin. Programs using

?S: this variable must be prepared to deal with ~name substitution.

?S:.

?S:binexp:

?S: This is the same as the bin variable, but is filename expanded at

?S: configuration time, for use in your makefiles.

```

?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
./getfile
if $test "X$sansexp" != "X$binexp"; then
installbin="
fi
bin="$ans"
binexp="$sansexp"
if $afs; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which executables reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installbin" in
") dflt=`echo $binexp | sed 's#^/afs/#/afs/.#`;;
*) dflt="$installbin";;
esac
fn=de~
rp='Where will public executables be installed?'
./getfile
installbin="$ans"
else

```

```
installbin="$binexp"
```

```
fi
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/bin.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_getprior.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:06:16 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_getprior: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_getprior:
```

```
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
```

```
?S: is available to get a process's priority.
```

```
?S:.
```

```
?C:HAS_GETPRIORITY (GETPRIORITY):
```

```
?C: This symbol, if defined, indicates that the getpriority routine is
```

```
?C: available to get a process's priority.
```

```
?C:.
```

```
?H:#$d_getprior
```

```
HAS_GETPRIORITY /**/
```

```
?H:.
```

```
: see if getpriority exists
```

```
?LINT:set d_getprior
```

```
set getpriority d_getprior
```

```
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_getprior.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_fp: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_fp:  
?S: This variable conditionally defines the I\_FP symbol, and indicates  
?S: whether a C program should include <fp.h>.  
?S:.  
?C:I\_FP:  
?C: This symbol, if defined, indicates that <fp.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_fp I\_FP /\*\*/  
?H:.  
?LINT:set i\_fp  
: see if this is a fp.h system  
set fp.h i\_fp  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_fp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_msg.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:37 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_msg: test d\_msgctl d\_msgget d\_msgsnd d\_msgrcv Setvar Findhdr osname  
?MAKE: -pick add \$@ %<  
?S:d\_msg:  
?S: This variable conditionally defines the HAS\_MSG symbol, which  
?S: indicates that the entire msg\*(2) library is present.  
?S:.  
?C:HAS\_MSG:  
?C: This symbol, if defined, indicates that the entire msg\*(2) library is

```

?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
HAS_MSG /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*$undef*) h_msg=false;;
esac
case "$osname" in
freebsd)
    case "`ipcs 2>&1`" in
        "SVID messages"*"not configured"*)
            echo "Your $osname does not have the msg*(2) configured." >&4
            h_msg=false
        val="$undef"
        set msgctl d_msgctl
        eval $setvar
        set msgget d_msgget
        eval $setvar
        set msgsnd d_msgsnd
        eval $setvar
        set msgrcv d_msgrcv
        eval $setvar
    ;;
    esac
    ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
    echo "You have the full msg*(2) library." >&4
    val="$define"
else
    echo "You don't have the full msg*(2) library." >&4
    val="$undef"
fi
set d_msg
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_msg.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: d\_setnent.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:09 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_setnent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_setnent:  
?S: This variable conditionally defines HAS\_SETNETENT if setnentent() is  
?S: available.  
?S:.  
?C:HAS\_SETNETENT:  
?C: This symbol, if defined, indicates that the setnentent() routine is  
?C: available.  
?C:.  
?H:#\$d\_setnent HAS\_SETNETENT /\*\*/  
?H:.  
?LINT:set d\_setnent  
: see if setnentent exists  
set  
setnentent d\_setnent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_setnent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_getpwent.U,v \$

```

?RCS: Revision 3.0 1993/08/18 12:06:17 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
echo "getpwent() found." >&4
val="$define"
else
echo "No getpwent() found -- will use getpw() instead." >&4
val="$undef"
fi
set d_getpwent
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d_getpwent.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits

```

?S: indicate more significance. The variable byteorder is either 4321

?S: on a big-endian machine, or 1234 on a little-endian, or 87654321

?S: on a Cray ... or 3412 with weird order !

?S:.

?C:BYTEORDER:

?C: This symbol hold the hexadecimal constant defined in byteorder,

?C: i.e. 0x1234 or 0x4321, etc...

?C:.

?H:#define BYTEORDER 0x\$byteorder /\*

large digits for MSB \*/

?H:.

?T:xxx\_prompt

?F:!try

: check for ordering of bytes in a long

case "\$byteorder" in

")

\$cat <<'EOM'

In the following, larger digits indicate more significance. A big-endian machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other machines may have weird orders like 3412. A Cray will report 87654321. If the test program works the default is probably right.

I'm now running the test program...

EOM

\$cat >try.c <<'EOCP'

#include <stdio.h>

int main()

{

int i;

union {

unsigned long l;

char c[sizeof(long)];

} u;

if (sizeof(long) > 4)

u.l = (0x08070605L << 32) | 0x04030201L;

else

u.l = 0x04030201L;

for (i = 0; i < sizeof(long); i++)

printf("%c", u.c[i]+'0');

printf("\n");

exit(0);

}

EOCP

xxx\_prompt=y

if \$cc \$cflags -o try try.c >/dev/null 2>&1 && ./try >/dev/null; then

dflt=`./try`



```

case "$dflt" in
[1-4][1-4][1-4][1-4]|12345678|87654321)
echo
"(The test program ran ok.)"
echo "byteorder=$dflt"
xxx_prompt=n
;;
????|????????) echo "(The test program ran ok.)" ;;
*) echo "(The test program didn't run right for some reason.)" ;;
esac
else
dflt='4321'
cat <<'EOM'

```

(I can't seem to compile the test program. Guessing big-endian...)

EOM

```

fi
case "$xxx_prompt" in
y)
rp="What is the order of bytes in a long?"
./myread
byteorder="$ans"
;;
*) byteorder=$dflt
;;
esac
;;
esac
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/byteorder.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getmnt: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_getmnt:

?S: This variable conditionally defines the HAS\_GETMNT symbol, which

?S: indicates to the C program that the getmnt() routine is available

?S: to retrieve one or more mount info blocks by filename.

?S:.

?C:HAS\_GETMNT:  
?C: This symbol, if defined, indicates that the getmnt routine is  
?C: available to get filesystem mount info by filename.  
?C:.  
?H:#\$d\_getmnt HAS\_GETMNT /\*\*/  
?H:.  
?LINT:set d\_getmnt  
: see if getmnt exists  
set getmnt d\_getmnt  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_getmnt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: etc.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:08:07 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:etc etcexp: Getfile Loc Oldconfig  
?MAKE: -pick add \$@ %<  
?S:etc:  
?S: This variable holds the name of the directory in which the user wants  
?S: to put "administrative" executable images for the package in question.  
?S: It is most often a local directory such as /usr/local/etc. Programs  
?S: relying on this variable must be prepared to deal with  
~name  
?S: substitutions.  
?S:.  
?S:etcexp:  
?S: This is the same as the etc variable, but is filename expanded at  
?S: configuration time, for convenient use in makefiles.  
?S:.  
: determine where administrative executables go  
case "\$etc" in  
)  
dflt=`./loc ./local/etc /usr/local/etc /local/etc /usr/etc /etc`

```

;;
*)
dflt="$etc"
;;
esac
fn=d~
rp='Where should the administrative executables go?'
./getfile
etc="$ans"
etcexp="$ansexp"

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/etc.U
```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:01:46 ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:18 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
cat
<<EOM

```

NOTE: many V7 systems do not have a way to do a non-blocking read. If you don't have any of FIONREAD, O\_NDELAY, or rdchk(), the \$package package may not work as well as it might. It might not work at all.

EOM

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Warn\_v7ND.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1 1994/08/29 16:11:38 ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0 1993/08/18 12:06:45 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
?S: routine is not available to print system
?S: error messages.
?S:
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
?C: use your own diagnostic routine...
?C:
?C:perror ~ %<:
?C: This symbol is maped to null if the perror() routine is not
?C: available to print system error messages.
?C:
?H:%<:#$d_perror HAS_PERROR /**/
?H:%<:#ifndef HAS_PERROR
?H:%<:#define perror(s) ; /* mapped to a null statement */
?H:%<:#endif
?H:
?LINT:set d_perror
```

: see if perror exists  
set perror d\_perror  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_perror.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_pthread\_y.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_pthread\_yield sched\_yield d\_sched\_yield: \  
Compile Setvar cat rm\_try usethreads

?MAKE: -pick add \$@ %<

?MAKE: -pick add \$@ %<

?S:d\_pthread\_yield:

?S: This variable conditionally defines the HAS\_PTHREAD\_YIELD

?S: symbol if the pthread\_yield routine is available to yield

?S: the execution of the current thread.

?S:.

?S:sched\_yield:

?S: This variable defines the way to yield the execution

?S: of the current thread.

?S:.

?S:d\_sched\_yield:

?S: This variable conditionally defines the HAS\_SCHED\_YIELD

?S: symbol if the sched\_yield routine is available to yield

?S: the execution of the current thread.

?S:.

?C:HAS\_PTHREAD\_YIELD:

?C: This symbol, if defined, indicates that the pthread\_yield

?C: routine is available

to yield the execution of the current

?C: thread. sched\_yield is preferable to pthread\_yield.

?C:.

?C:SCHED\_YIELD:

?C: This symbol defines the way to yield the execution of

?C: the current thread. Known ways are sched\_yield,

?C: pthread\_yield, and pthread\_yield with NULL.

?C:.

?C:HAS\_SCHED\_YIELD:

?C: This symbol, if defined, indicates that the sched\_yield

?C: routine is available to yield the execution of the current

?C: thread. sched\_yield is preferable to pthread\_yield.

```

?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
    sched_yield();
#else
#ifdef PTHREAD_YIELD
    pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
    pthread_yield(NULL);
#endif
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
then
    val="$define"
    sched_yield='sched_yield()'
else
    val="$undef"
fi
case "$susetthreads" in
$define)
    case "$val" in
$define) echo 'sched_yield() found.'>&4 ;;
*) echo 'sched_yield() NOT found.'>&4 ;;
esac
esac
set d_sched_yield
eval $setvar

: see if pthread_yield exists
set try -DPTHREAD_YIELD
if eval $compile; then
    val="$define"
    case "$sched_yield" in

```

```

    ") sched_yield='pthread_yield()' ;;
    esac
else
    set try -DPTHREAD_YIELD_NULL
    if eval $compile; then
    val="$define"
    case "$sched_yield" in
    ") sched_yield='pthread_yield(NULL)' ;;
    esac
    else
    val="$undef"
    fi
fi
case "$usetthreads" in
$define)
case "$val" in
$define) echo 'pthread_yield() found.' >&4 ;;
*) echo 'pthread_yield() NOT found.' >&4 ;;
esac
;;
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
") sched_yield=undef ;;
esac
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_pthread_y.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2009 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getaddrinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getaddrinfo:

?S: This variable conditionally defines the HAS\_GETADDRINFO symbol,

?S: which indicates to the C program that the getaddrinfo() function

?S: is available.

?S:.

?C:HAS\_GETADDRINFO:

?C: This symbol, if defined, indicates that the getaddrinfo() function

?C: is available for use.

?C:.

?H:#\$d\_getaddrinfo HAS\_GETADDRINFO /\*\*/

?H:.

?LINT:set d\_getaddrinfo

: see if getaddrinfo exists

set getaddrinfo d\_getaddrinfo

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_getaddrinfo.U

No license file was found, but licenses were detected in source scan.

?RCS:

?RCS: Copyright (c) 2012 Raphael Manfredi

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:Assert: cat

?MAKE: -pick add \$@ %<

?F:./static\_assert.h

: static assertion checking include file

?X:

?X: C programs can include this file to perform STATIC\_ASSERT() checks

?X: which are done at compile-time and cause the compilation to fail when

?X: the expression is false.

?X:

?X: It is sufficient to compile with: \$cc -c \$ccflags try.c

?X: There is no need to link the file to spot the assertion failure.

?X:

\$cat >static\_assert.h <<'EOC'

#define STATIC\_ASSERT(expr) \

do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }

while(0)

EOC

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Assert.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp \$



?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: archname.U,v \$  
?RCS: Revision 3.0.1.3 1997/02/28 15:24:32 ram  
?RCS: patch61: changed the way the archname is mangled from uname  
?RCS:  
?RCS: Revision 3.0.1.2 1995/05/12 12:05:24 ram  
?RCS: patch54: protect against spaces in "uname -m" output (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1995/02/15 14:14:21 ram  
?RCS: patch51: created  
?RCS:  
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \  
osname test rm usethreads usemultiplicity use64bitint  
use64bitall \  
archname64 uselongdouble longdblsize doublesize targetarch Setvar \  
api\_versionstring usequadmath  
?MAKE: -pick add \$@ %<  
?S:archname:  
?S: This variable is a short name to characterize the current  
?S: architecture. It is used mainly to construct the default archlib.  
?S:.  
?S:myarchname:  
?S: This variable holds the architecture name computed by Configure in  
?S: a previous run. It is not intended to be perused by any user and  
?S: should never be set in a hint file.  
?S:.  
?S:useversionedarchname:  
?S: This variable indicates whether to include the \$api\_versionstring  
?S: as a component of the \$archname.  
?S:.  
?C:ARCHNAME:  
?C: This symbol holds a string representing the architecture name.  
?C: It may be used to construct an architecture-dependant pathname  
?C: where library files may be held under a private library, for  
?C: instance.  
?C:.  
?H:#define ARCHNAME "\$archname" /\*\*/  
?H:.  
?T:xxx tarch  
?F:!archname.cbu

```

?INIT:archname="
: determine the architecture name
echo " "
?X:
We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
  tarch=`arch`-"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
  if uname -m > tmparch 2>&1 ; then
    tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
      -e 's/$/'-"-$osname/" tmparch`
  else
    tarch="$osname"
  fi
  $rm -f tmparch
else
  tarch="$osname"
fi
case "$myarchname" in
|"$tarch") ;;
*)
  echo "(Your architecture name used to be $myarchname.)"
  archname="
  ;;
esac
case "$targetarch" in
") ;;
?X: Very GCCian.
*) archname=`echo $targetarch|sed 's,^[^]*-,` ` `;
esac
myarchname="$tarch"
case "$archname" in
") dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
./myread
archname="$ans"

:
optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)
  dflt='n';;

```

```

esac
rp='Add the Perl API version to your archname?'
./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*) useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
$define)
case "$archname" in
*-$api_versionstring)
echo "...and architecture name already has -$api_versionstring" >&4
;;
*)
archname="$archname-$api_versionstring"
echo "...setting architecture name to $archname." >&4
;;
esac
;;
esac
@if usethreads
case "$usethreads" in
$define)
echo "Threads selected." >&4
case "$archname" in
*-thread*) echo "...and architecture name already has -thread." >&4
;;
*) archname="$archname-thread"
echo "...setting architecture name to $archname." >&4
;;
esac
;;
esac
@end
@if usemultiplicity
case "$usemultiplicity" in
$define)
echo "Multiplicity selected."
>&4
case "$archname" in
*-multi*) echo "...and architecture name already has -multi." >&4
;;
*) archname="$archname-multi"
echo "...setting architecture name to $archname." >&4
;;
esac
;;

```

```

esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
case "$archname64" in
")
echo "This architecture is naturally 64-bit, not changing architecture name." >&4
;;
*)
case "$use64bitint" in
"$define") echo "64 bit integers selected." >&4 ;;
esac
case "$use64bitall" in
"$define") echo "Maximal 64 bitness selected." >&4 ;;
esac
case "$archname" in
*-$archname64*) echo "...and architecture name already has $archname64." >&4
;;
*) archname="$archname-$archname64"
echo "...setting architecture name to $archname." >&4
;;
esac
;;
esac
esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
echo "Long doubles selected." >&4
case "$longdblsize" in
$doublesize)
echo "...but long doubles are equal to doubles, not
changing architecture name." >&4
;;
*)
case "$archname" in
*-$ld*) echo "...and architecture name already has -ld." >&4
;;
*) archname="$archname-$ld"
echo "...setting architecture name to $archname." >&4
;;
esac
;;
esac
;;
esac

```

```

@end
@if usequadmath
case "$usequadmath" in
$define)
echo "quadmath selected." >&4
case "$archname" in
*-quadmath*) echo "...and architecture name already has -quadmath." >&4
;;
*) archname="$archname-quadmath"
echo "...setting architecture name to $archname." >&4
;;
esac
;;
esac
@end
if $test -f archname.cbu; then
echo "Your platform has some specific hints for architecture name, using them..."
. ./archname.cbu
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/archname.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:uselargefiles \

ccflags\_uselargefiles \

ldflags\_uselargefiles \

libswanted\_uselargefiles: \

Myread Oldconfig Setvar test lseeksize fpossize \

fpostype Compile echo n c cat lseektype rm\_try run \

use64bitint use64bitall i\_stdlib

?MAKE: -pick add \$@ %<

?Y:TOP

?S:uselargefiles:

?S: This variable conditionally defines the USE\_LARGE\_FILES symbol,

?S: and indicates that large file interfaces should be used when

?S: available.

?S:.

?S:ccflags\_uselargefiles:

?S: This variable contains the compiler flags needed by large file builds

```

?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
?S: hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files. It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
?H:?%<:#$uselargefiles USE_LARGE_FILES /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles="
?INIT:ldflags_uselargefiles="
?INIT:libswanted_uselargefiles="
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern usefs
?LINT:use use64bitint
?LINT:use use64bitall
: Check for large file support
# Backward compatibility (usefs is deprecated).
case "$usefs" in
"$define"|true|[yY]*)
cat <<EOM >&4

*** Configure -Dusefs is deprecated, using -Duselargefiles instead.
EOM
uselargefiles="$define"
;;
esac

case "$lseeksize:$fpossize"
in
8:8) cat <<EOM

```

You can have files larger than 2 gigabytes.

```

EOM
val="$define" ;;
*) case "$uselargefiles" in
"$undef"|false|[nN]*) dflt='n' ;;
*) dflt='y' ;;
esac
cat <<EOM

```

Perl can be built to understand large files (files larger than 2 gigabytes) on some systems. To do so, Configure can be run with `-Duselargefiles`.

If this doesn't make any sense to you, just accept the default '\$dflt'.

```

EOM
rp="Try to understand large files, if available?"
./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef" ;;
esac
;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'. If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
echo "Your platform has some specific hints regarding large file builds, using them..."
./uselargefiles.cbu
fi
case "$uselargefiles" in
"$define")
if $test -f uselargefiles.cbu;
then
echo " "
echo "Rechecking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
printf("%d\n", (int)sizeof($lseektype));
return(0);
}
EOCP
set try
if eval $compile_ok; then
lseeksize=`$run ./try`

```

```

$echo "Your file offsets are now $lseeksize bytes long."
else
dflt="$lseeksize"
echo " "
echo "(I can't seem to compile the test program. Guessing...)"
rp="What is the size of your file offsets (in bytes)?"
./myread
lseeksize="$ans"
fi
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*) zzz="fpos_t" ;;
esac
$echo $n "Rechecking the size of $zzz...$c" >&4
$cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
printf("%d\n", (int)sizeof($fpostype));
return(0);
}
EOCP
set try
if eval $compile_ok; then
yyy=`$run ./try`
dflt="$lseeksize"
case "$yyy" in
") echo
" "
echo "(I can't execute the test program--guessing $fpossize.)" >&4
;;
*) fpossize=$yyy
echo " $fpossize bytes." >&4
;;
esac
else
dflt="$fpossize"
echo " "
echo "(I can't compile the test program. Guessing...)" >&4
rp="What is the size of your file positions (in bytes)?"
./myread
fpossize="$ans"
fi
$rm_try

```



```
fi
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/uselfs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?MAKE:d_getprotoprotos : Hasproto i_netdb
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_getprotoprotos:
```

```
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
```

```
?S: which indicates to the C program that <netdb.h> supplies
```

```
?S: prototypes for the various getproto*() functions.
```

```
?S: See also netdbtype.U for probing for various netdb types.
```

```
?S:.
```

```
?C:HAS_GETPROTO_PROTOS:
```

```
?C: This symbol, if defined, indicates that <netdb.h> includes
```

```
?C: prototypes for getprotoent(), getprotobyname(), and
```

```
?C: getprotobyaddr().
```

Otherwise, it is up to the program to guess

```
?C: them. See netdbtype.U for probing for various Netdb_xxx_t types.
```

```
?C:.
```

```
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
```

```
?H:.
```

```
?LINT:set d_getprotoprotos
```

```
: see if prototypes for various getprotoxxx netdb.h functions are available
```

```
echo " "
```

```
set d_getprotoprotos getprotoent $i_netdb netdb.h
```

```
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/d_getprotoprotos.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:12:14 ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
    This routine is roughly the same as fmod, i.e. it
?C: computes the remainder  $r=x-n*y$ , where  $n=rint(x/y)$ , whereas fmod
?C: uses  $n=trunc(x/y)$ .
?C:.
?H:#$d_drem HAS_DREM /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_drem.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_setgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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```

?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_setrgid.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:07:14 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_setrgid: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_setrgid:  
?S: This variable conditionally defines the HAS\_SETRGID symbol, which  
?S: indicates to the C program that the setrgid() routine is available  
?S: to change the real gid of the current program.  
?S:.  
?C:HAS\_SETRGID (SETRGID):  
?C: This symbol, if defined, indicates that the setrgid  
routine is available  
?C: to change the real gid of the current program.  
?C:.  
?H:#\$d\_setrgid HAS\_SETRGID /\*\*/  
?H:.  
?LINT:set d\_setrgid  
: see if setrgid exists  
set setrgid d\_setrgid  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_setrgid.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
?MAKE:d\_remquo: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_remquo:  
?S: This variable conditionally defines the HAS\_REMQUO symbol, which  
?S: indicates to the C program that the remquo() routine is available.  
?S:.  
?C:HAS\_REMQUO:  
?C: This symbol, if defined, indicates that the remquo routine is  
?C: available to return the remainder and part of quotient.  
?C:.  
?H:#\$d\_remquo HAS\_REMQUO /\*\*/  
?H:.  
?LINT:set d\_remquo  
: see if remquo exists  
set remquo d\_remquo

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_remquo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: filexp.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:08 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:filexp: privlib

?MAKE: -pick add \$@ %<

?S:filexp:

?S: This symbol contains the full pathname of the filexp script, in case we

?S: are saving the script for posterity.

?S:.

: must not allow self reference

case "\$privlib" in

/\*)

filexp=\$privlib/filexp

::

\*)

filexp=`pwd`/filexp

::

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/filexp\_path.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setpwent.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
?RCS: \$Log: d\_setpwent.U,v \$  
?RCS:  
?MAKE:d\_setpwent: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_setpwent:  
?S: This variable conditionally defines the HAS\_SETPWENT symbol, which  
?S: indicates to the C program that the setpwent() routine is available  
?S: for initializing sequential access to the passwd database.  
?S:.  
?C:HAS\_SETPWENT:  
?C: This symbol, if defined, indicates that the setpwent routine is  
?C: available for initializing sequential access of the passwd database.  
?C:.  
?H:#\$d\_setpwent HAS\_SETPWENT /\*\*/  
?H:.  
?LINT:set d\_setpwent  
: see if setpwent exists  
set setpwent d\_setpwent  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_setpwent.U

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2000,2014 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_fpclassify d\_fp\_classify: Inlibc cat Compile rm\_try Setvar  
?MAKE: -pick add \$@ %<  
?X:the short story is that C99 says use fpclassify. But the story is confused  
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify  
?X:but with different return values, or they use fp\_classify (with the expected  
?X:return values, or they use some other spelling of \*fp\*class\* (sometimes even  
?X:without the \*fp\* part), with yet another set(s) of return values ...  
?S:d\_fpclassify:  
?S: This variable conditionally defines the HAS\_FPCLASSIFY symbol, which  
?S: indicates to the C program that the fpclassify() routine is available.  
?S:.  
?S:d\_fp\_classify:  
?S: This variable conditionally defines the HAS\_FP\_CLASSIFY  
symbol, which  
?S: indicates to the C program that the fp\_classify() routine is available.  
?S:.  
?C:HAS\_FPCLASSIFY:

?C: This symbol, if defined, indicates that the fpclassify routine is  
?C: available to classify doubles. Available for example in HP-UX.  
?C: The returned values are defined in <math.h> and are  
?C:  
?C: FP\_NORMAL Normalized  
?C: FP\_ZERO Zero  
?C: FP\_INFINITE Infinity  
?C: FP\_SUBNORMAL Denormalized  
?C: FP\_NAN NaN  
?C:  
?C:.  
?C:HAS\_FP\_CLASSIFY:  
?C: This symbol, if defined, indicates that the fp\_classify routine is  
?C: available to classify doubles. The values are defined in <math.h>  
?C:  
?C: FP\_NORMAL Normalized  
?C: FP\_ZERO Zero  
?C: FP\_INFINITE Infinity  
?C: FP\_SUBNORMAL Denormalized  
?C: FP\_NAN NaN  
?C:  
?C:.  
?H:#\$d\_fpclassify HAS\_FPCLASSIFY /\*\*/  
?H:#\$d\_fp\_classify HAS\_FP\_CLASSIFY /\*\*/  
?H:.  
?LINT:set d\_fpclassify  
?LINT:set d\_fp\_classify  
: check for fpclassify  
?X:classified (Comment by jhi)  
?X:fpclassify i\_math  
?X:fp\_classify i\_math  
?X:fpclass i\_math  
i\_ieeeFP i\_fp  
?X:fp\_class i\_math i\_fp\_class  
?X: No i\_fp\_class yet. But the systems that have  
?X: this (Tru64 and IRIX) both had <fp\_class.h>  
?X:class i\_math  
echo "Checking to see if you have fpclassify..." >&4  
\$cat >try.c <<EOCP  
#include <math.h>  
int main() { return fpclassify(1.0) == FP\_NORMAL ? 0 : 1; }  
EOCP  
set try  
if eval \$compile; then  
val="\$define"  
echo "You have fpclassify."  
else  
val="\$undef"

```
echo "You do not have fpclassify."
```

```
fi
```

```
$rm_try
```

```
set d_fpclassify
```

```
eval $setvar
```

```
: see if fp_classify exists
```

```
set fp_classify d_fp_classify
```

```
eval $inlibc
```

```
Found in path(s):
```

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_fpclassify.U
```

```
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
```

```
byteorder u32type Myread Setvar u8type signal_t
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_u32align:
```

```
?S: This variable tells whether you must access character data
```

```
?S: through U32-aligned pointers.
```

```
?S:.
```

```
?C:U32_ALIGNMENT_REQUIRED:
```

```
?C: This symbol, if defined, indicates that you must access
```

```
?C: character data through U32-aligned pointers.
```

```
?C:.
```

```
?H:%<:#ifndef U32_ALIGNMENT_REQUIRED
```

```
?H:%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
```

```
?H:%<:#endif
```

```
?H:.
```

```
?F:!try
```

```
: Checking 32bit alignedness
```

```
$cat
```

```
<<EOM
```

```
Checking to see whether you can access character data unalignedly...
```

```
EOM
```

```
case "$d_u32align" in
```

```

") $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t blech(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
    volatile U8 buf[8];
    volatile U32 *up;
    int i;

    if (sizeof(U32) != 4) {
printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
exit(1);
    }

    fflush(stdout);

#ifdef SIGBUS
    signal(SIGBUS, blech);
#endif

    buf[0] = 0;
    buf[1] = 0;
    buf[2] = 0;
    buf[3] = 1;
    buf[4] = 0;
    buf[5] = 0;
    buf[6] = 0;
    buf[7] = 1;

    for (i = 0; i < 4; i++) {
up = (U32*)(buf + i);
if (!( (*up == 1 << (8*i)) || /* big-endian */
      (*up == 1 << (8*(3-i))) /* little-endian */
      )
    )
    {
printf("read failed (%x)\n", *up);

```



```

    exit(2);
}
}

/* write test */
for (i = 0; i < 4; i++) {
up = (U32*)(buf + i);
*up = 0xBeef;
if (*up != 0xBeef) {
    printf("write failed (%x)\n", *up);
    exit(3);
}
}

    exit(0);
#else
    printf("1\n");
    exit(1);
#endif
    return 0;
}
EOCP
set try
if eval $compile_ok; then
echo "(Testing for character data alignment may crash the test. That's okay.)" >&4
$run ./try 2>&1 >/dev/null
case "$?" in
0) cat >&4 <<EOM
You can access character data pretty unaligned.
EOM
    d_u32align="$undef"
    ;;
*) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
    d_u32align="$define"
    ;;
esac
else
rp='Can you access character data at unaligned addresses?'
dflt='n'
. ./myread
case "$ans" in
[yY]*) d_u32align="$undef" ;;
*) d_u32align="$define" ;;
esac
fi
$rm_try

```

```
::
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_u32align.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: Csym.U,v $
```

```
?RCS: Revision 3.0.1.4 1995/07/25 13:36:29 ram
```

```
?RCS: patch56: re-arranged compile line to include ldflags before objects
```

```
?RCS: patch56: added quotes for OS/2 support
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.3 1995/05/12 12:00:33 ram
```

```
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.2 1994/10/31 09:34:13 ram
```

```
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
```

```
?RCS:
```

```
?RCS: Revision
```

```
3.0.1.1 1993/08/25 14:00:05 ram
```

```
?RCS: patch6: added ldflags as a conditional dependency and to compile line
```

```
?RCS: patch6: a final double quote was missing in csym variable after eval
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:04:50 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
```

```
+cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
```

```
?MAKE: -pick add $@ %<
```

```
?LINT:define csym
```

```
?LINT:use libc
```

```
?LINT:extern mistrustnm
```

```
?LINT:set mistrustnm
```

```
?S:csym:
```

```
?S: This shell variable is used internally by Configure to check
```

```
?S: whether a given C symbol is defined or not. A typical use is:
```

```
?S: set symbol result [-fva] [previous]
```

?S: eval \$csym

?S: That will set result to 'true' if the function [-f], variable [-v]

?S: or array [-a] is defined, 'false' otherwise. If a previous value is

?S: given and the -r flag was provided on the command line, that value

?S: is reused without questioning.

?S:.

?S:extern\_C:

?S: ANSI C

requires 'extern' where C++ requires 'extern "C"'. This

?S: variable can be used in Configure to do the right thing.

?S:.

?S:mistrustnm:

?S: This variable can be used to establish a fallback for the cases

?S: where nm fails to find a symbol. If usenm is false or usenm is true

?S: and mistrustnm is false, this variable has no effect. If usenm is true

?S: and mistrustnm is "compile", a test program will be compiled to try to

?S: find any symbol that can't be located via nm lookup. If mistrustnm is

?S: "run", the test program will be run as well as being compiled.

?S:.

?V:csym

?T:tval tx tlook tf tdc

?F:!try

: is a C symbol defined?

```

csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
  $define) extern_C="extern \"C\"";;
  *) extern_C="extern";;
esac;
tx=yes;
case "$reusel-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against

```

?X: memcpy() on machines where sizeof(int) == sizeof(char \*) (the usual return

?X: type), the compiler assuming it's a built-in declaration given that the

?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO

?X:

?X: Let's thank GNU cc for making our lives so easy! :-)

?X: (An alternative for the future would be to use our knowledge about gcc

?X: to force a -fno-builtin option in the compile test, in case the 'short'

?X: trick is obsoleted by future gcc releases). -- RAM

?X:

```
tval=false;
```

```
if $test "$runnm" = true; then
```

```
  if $contains $tlook $tf >/dev/null 2>&1; then
```

```
    tval=true;
```

```
    elif $test "$mistrustnm"
```

```
= compile -o "$mistrustnm" = run; then
```

```
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() != (void *)argv[0]) return(0); else return(1); }"> try.c;
```

```
  $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
```

```
  $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
```

```
  $rm_try;
```

```
fi;
```

```
else
```

```
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() != (void *)argv[0]) return(0); else return(1); }"> try.c;
```

```
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
```

```
  $rm_try;
```

```
fi;
```

```
::
```

```
*)
```

```
case "$tval" in
```

```
  $define) tval=true;;
```

```
  *) tval=false;;
```

```
esac;
```

```
::
```

```
esac;
```

```
eval "$2=$tval"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/Csym.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Inhdr.U,v \$  
?RCS: Revision 3.0.1.2 1995/05/12 12:01:31 ram  
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 15:55:01 ram  
?RCS: patch36: call ./whoa explicitly instead of relying on PATH  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:01 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit checks wether a set of header files exists or not.  
?X: If the first header is not  
found, the function tries to locate  
?X: the next header, and so on, until one is found or there is no  
?X: more header in the list.  
?X:  
?X: To use it, say:  
?X: set header i\_header [ header2 i\_header2 ... ]  
?X: eval \$inhdr  
?X:  
?MAKE:Inhdr: test Findhdr Whoa  
?MAKE:-pick add \$@ %<  
?LINT:define inhdr  
?V:inhdr  
?S:inhdr:  
?S: This shell variable is used internally by Configure to check  
?S: wether a set of headers exist or not. A typical use is:  
?S: set header i\_header [ header2 i\_header2 ... ]  
?S: eval \$inhdr  
?S: That will print a message, saying wether header was found or not  
?S: and set i\_header\* accordingly. If the first header is not found,  
?S: we try the next one, until the list is empty or one is found.  
?S:.  
?T:xxx xxf var td xxnf tu yyy instead was cont  
: define an alternate in-header-list? function  
inhdr='echo " "; td=\$define; tu=\$undef; yyy=\$@;  
cont=true; xxf="echo \"<\$1> found.\" >&4";  
case \$# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;  
\*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;  
esac;  
case  
\$# in 4) instead=instead;; \*) instead="at last";; esac;  
while \$test "\$cont"; do

```

xxx=`./findhdr $1`
var=$2; eval "was=\$$2";
if $test "$xxx" && $test -r "$xxx";
then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
cont="";
else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
set $yyy; shift; shift; yyy=$@;
case $# in 0) cont="";;
2) xxf="echo \"but I found <\$1> $instead.\" >&4";
xxnf="echo \"and I did not find <\$1> either.\" >&4";;
*) xxf="echo \"but I found <\$1> instead.\" >&4";
xxnf="echo \"there is no <\$1>, ...\" >&4";;
esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
set $yyy; shift; shift; yyy=$@;
done'

```

Found

in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1-rc1/dist/U/Inhdr.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_link.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_link.U,v \$

?RCS: Revision 3.0.1.1 1993/08/25 14:01:13 ram

?RCS: patch6: created for completeness

?RCS:

?MAKE:d\_link: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_link:

?S: This variable conditionally defines HAS\_LINK if link() is

?S: available to create hard links.

?S:.

?C:HAS\_LINK:

?C: This symbol, if defined, indicates that the link routine is

?C: available to create hard links.

?C:.

?H:#\$d\_link HAS\_LINK /\*\*/

?H:.

?LINT:set d\_link

: see if link exists

set

link d\_link

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_link.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000, Jarkko Hietaniemi

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_lseekproto: Hasproto i\_systypes i\_unistd

?MAKE: -pick add \$@ %<

?S:d\_lseekproto:

?S: This variable conditionally defines the HAS\_LSEEK\_PROTO symbol,

?S: which indicates to the C program that the system provides

?S: a prototype for the lseek() function. Otherwise, it is

?S: up to the program to supply one.

?S:.

?C:HAS\_LSEEK\_PROTO:

?C: This symbol, if defined, indicates that the system provides

?C: a prototype for the lseek() function. Otherwise, it is up

?C: to the program to supply one. A good guess is

?C: extern

off\_t lseek(int, off\_t, int);

?C:.

?H:#\$d\_lseekproto HAS\_LSEEK\_PROTO /\*\*/

?H:.

?LINT:set d\_lseekproto

```
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/protos/d_lseekproto.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
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```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: d_times.U,v $
```

```
?RCS: Revision 3.0.1.2 1995/07/25 14:07:50 ram
```

```
?RCS: patch56: typo fix, sytem -> system
```

```
?RCS:
```

```
?RCS: Revision 3.0.1.1 1994/08/29 16:14:00 ram
```

```
?RCS: patch32: now uses new Typedef unit to compute type information
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:07:46 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?X:
```

```
?X: What is the type returned by times() ?
```

```
?X:
```

```
?X: Force inclusion of <sys/types.h>
```

```
?X:INC: i_systypes
```

```
?MAKE:d_times clocktype:
```

```
Csym Myread Typedef i_systimes
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_times:
```

```
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
```

```
?S: that the times() routine exists. The times() routine is normally
```

```
?S: provided on UNIX systems. You may have to include <sys/times.h>.
```

```
?S:.
```

```
?S:clocktype:
```

```
?S: This variable holds the type returned by times(). It can be long,
```

```
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
```

```
?S: included).
```

```
?S:.
```



?C:HAS\_TIMES (TIMES):

?C: This symbol, if defined, indicates that the times() routine exists.

?C: Note that this became obsolete on some systems (SUNOS), which now

?C: use getrusage(). It may be necessary to include <sys/times.h>.

?C:.

?C:Clock\_t (CLOCKTYPE):

?C: This symbol holds the type returned by times(). It can be long,

?C: or clock\_t on BSD sites (in which case <sys/types.h> should be

?C: included).

?C:.

?H:#\$d\_times HAS\_TIMES /\*\*/

?H:#define Clock\_t \$clocktype /\* Clock time \*/

?H:.

?T:val inc

: see if times exists

echo "

"

if set times val -f d\_times; eval \$csym; \$val; then

echo 'times() found.' >&4

d\_times="\$define"

inc="

case "\$i\_systimes" in

"\$define") inc='sys/times.h';;

esac

rp="What is the type returned by times() on this system?"

set clock\_t clocktype long stdio.h sys/types.h \$inc

eval \$typedef\_ask

else

echo 'times() NOT found, hope that will do.' >&4

d\_times="\$undef"

?X: The following is needed for typedef (won't like an empty variable)

clocktype='int'

fi

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/typedefs/d\_times.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

```

?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2 1995/01/11 15:35:41 ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1 1994/01/24 14:16:45 ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
echo "Let's see if your sbrk() is smart enough to release core..." >&4
$cat > sbrk.c <<'EOC'
#define INC 256 /* Small enough to be less than a page size */

int main()
{
char *obrk = (char *) sbrk(0);
char *nbrk;

nbrk = (char *) sbrk(INC);
if (nbrk == (char *) -1)
exit(1); /* Not enough memory */
if (nbrk != obrk)
exit(2); /* Unreliable sbrk() */
nbrk = (char *) sbrk(-INC);
if (nbrk == (char *) -1)
exit(3); /* May have understood negative arg as huge positive */
if (obrk != (char *) sbrk(0))

```

```

exit(4); /* Not smart, definitely */

exit(0); /*
Ok */
}
EOC
sbrksmart="$undef"
dumb='-- assuming dumb sbrk().'
set sbrk
if eval $compile_ok; then
./sbrk >/dev/null 2>&1
case $? in
0) sbrksmart="$define"
echo "Yes, it can be used with negative values." ;;
1) echo "Sorry, not enough memory $dumb" ;;
2) echo "No it's not, and besides it seems to be buggy..." ;;
3) echo "No, it fails with negative values." ;;
4) echo "Nope, your sbrk() is too dumb." ;;
*) echo "Err... Unexpected result $dumb" ;;
esac
else
echo "(Could not compile test program $dumb)"
fi
;;
*)
echo "Since you don't have sbrk(), let's forget about the smart test!"
sbrksmart="$undef"
;;
esac
$rm -f sbrk sbrk.* core

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/sbrksmart.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera \$

?RCS:

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?RCS:

?RCS: \$Log: scriptdir.U,v \$

?RCS: Revision 3.1 1999/07/09 18:20:13 doughera

?RCS: Updated for installprefix

?RCS:

?RCS: Revision 3.0.1.3 1995/09/25 09:17:15 ram

?RCS: patch59: unit is now forced to the top of Configure, if possible

?RCS:

?RCS: Revision 3.0.1.2 1995/01/30 14:46:13 ram

?RCS: patch49: can now handle installation prefix changes (from WED)

?RCS:

?RCS: Revision 3.0.1.1 1994/08/29 16:32:04 ram

?RCS: patch32: now uses installation prefix

?RCS:

?RCS:

Revision 3.0 1993/08/18 12:09:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \  
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup

?MAKE: -pick add \$@ %<

?Y:TOP

?D:scriptdir="

?S:scriptdir:

?S: This variable holds the name of the directory in which the user wants

?S: to put publicly scripts for the package in question. It is either

?S: the same directory as for binaries, or a special one that can be

?S: mounted across different architectures, like /usr/share. Programs

?S: must be prepared to deal with ~name expansion.

?S:.

?D:scriptdirexp="

?S:scriptdirexp:

?S: This variable is the same as scriptdir, but is filename expanded

?S: at configuration time, for programs not wanting to bother with it.

?S:.

?S:installscript:

?S: This variable is usually the same as scriptdirexp, unless you are on

?S: a system running AFS, in which case they may differ slightly. You

?S: should always use this variable

within your makefiles for portability.

?S:.

?C:SCRIPTDIR:

?C: This symbol holds the name of the directory in which the user wants

?C: to put publicly executable scripts for the package in question. It

?C: is often a directory that is mounted across diverse architectures.

?C: Programs must be prepared to deal with ~name expansion.

?C:.

?C:SCRIPTDIR\_EXP:

?C: This is the same as SCRIPTDIR, but is filename expanded at

?C: configuration time, for use in programs not prepared to do

?C: ~name substitutions at run-time.

```

?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
dflt="$bin"
: guess some guesses
$test -d /usr/share/scripts && dflt=/usr/share/scripts
$test -d /usr/share/bin && dflt=/usr/share/bin
$test -d /usr/local/script && dflt=/usr/local/script
$test
-d /usr/local/scripts && dflt=/usr/local/scripts
$test -d $prefixexp/script && dflt=$prefixexp/script
set dflt
eval $prefixup
;;
*) dflt="$scriptdir"
;;
esac
$cat <<EOM

```

Some installations have a separate directory just for executable scripts so that they can mount it across multiple architectures but keep the scripts in one spot. You might, for example, have a subdirectory of /usr/share for this. Or you might just lump your scripts in with all your other executables.

```

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
./getfile
if $test "X$sansexp" != "X$scriptdirexp"; then
installscript="
fi
installscriptdir="
prefixvar=scriptdir
./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/scriptdir.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 14:58:52 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:51:46 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:52 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
?X: Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
set x `awk '{print $1}' < MANIFEST | grep "\.SH$"
else
echo "(Looking for .SH files under the source directory.)"
set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
```

```

0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
  shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
  if test ! -d "$name"; then
    create="$name $create";
    name=`echo $name | sed -e "s|^[^/]*$||"`;
    name=`echo $name | sed -e "s|(.*).*/.*|1|"`;
  else
    name="";
  fi;
done;
for file in $create; do
  mkdir $file;
done
'
for file in $*;
do
case "$src" in
".")
case "$file" in
*/*)
dir=`expr X$file : 'X\(.*)/'`
file=`expr X$file : 'X.*\^(.*)'`
(cd "$dir" && ./$file)
;;
*)
./$file
;;
esac
;;
*)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X: ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:

```

?X: Note that we must create the directory hierarchy ourselves if it does  
?X: not exist already, and that is done through a shell emulation of the  
?X: 'mkdir -p' command. We don't want to use the \$installdir metaconfig  
?X: symbol here since that would require too much to  
be configured for  
?X: this simple extraction task that may happen quickly with 'Configure -S'.  
?X: -- RAM, 18/03/96

?X:

```
case "$file" in
  */)
    dir=`expr X$file : 'X\(.*)/'`
    file=`expr X$file : 'X.*\(.*)'`
    (set x $dir; shift; eval $mkdir_p)
    sh <"$src/$dir/$file"
    ;;
  *)
    sh <"$src/$file"
    ;;
esac
;;
esac
done
if test -f "$src/config_h.SH"; then
if test ! -f config.h; then
: oops, they left it out of MANIFEST, probably, so do it anyway.
. "$src/config_h.SH"
fi
fi
EOS
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Extract.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:i\_inttypes: Inhdr cat rm\_try Setvar Compile

?MAKE: -pick add \$@ %<

?S:i\_inttypes:



?S: This variable conditionally defines the I\_INTTYPES symbol,  
?S: and indicates whether a C program should include <inttypes.h>.  
?S:.  
?C:I\_INTTYPES:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <inttypes.h>.

?C:.

?H:#\$i\_inttypes I\_INTTYPES /\*\*/

?H:.

?LINT:set i\_inttypes

: see if inttypes.h is available

: we want a real compile instead of Inhdr because some systems

: have an inttypes.h

which includes non-existent headers

echo " "

\$cat >try.c <<EOCP

#include <inttypes.h>

int main() {

static int32\_t foo32 = 0x12345678;

}

EOCP

set try

if eval \$compile; then

echo "<inttypes.h> found." >&4

val="\$define"

else

echo "<inttypes.h> NOT found." >&4

val="\$undef"

fi

\$rm\_try

set i\_inttypes

eval \$setvar

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_inttypes.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_fdim: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_fdim:

?S: This variable conditionally defines the HAS\_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS\_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d\_fdim HAS\_FDIM /\*\*/

?H:.

?LINT:set d\_fdim

: see if fdim exists

set fdim d\_fdim

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_fdim.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

\*

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\* of the source tree for dist 4.0.

\*

\* \$Log: rename.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:42 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/lib/C/fake/rename.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: pidtype.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:31:27 ram  
?RCS: patch32: now uses new Typedef unit to compute type information  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:33 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:pidtype: Myread Typedef  
?MAKE: -pick add \$@ %<  
?S:pidtype:  
?S: This variable defines PIDTYPE to be something like pid\_t, int,  
?S: ushort, or whatever type is used to declare process ids in the kernel.  
?S:.  
?C:Pid\_t (PIDTYPE):  
?C: This  
symbol holds the type used to declare process ids in the kernel.  
?C: It can be int, uint, pid\_t, etc... It may be necessary to include  
?C: <sys/types.h> to get any typedef'ed information.  
?C:.  
?H:#define Pid\_t \$pidtype /\* PID type \*/  
?H:.  
?LINT: set pidtype  
: see what type pids are declared as in the kernel  
rp="What is the type of process ids on this system?"  
set pid\_t pidtype int stdio.h sys/types.h  
eval \$typedef\_ask

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/typedefs/pidtype.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_readdir64\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_readdir64\_r readdir64\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
usethreads i\_dirent extern\_C

?MAKE: -pick add \$@ %<

?S:d\_readdir64\_r:

?S: This variable conditionally defines the HAS\_READDIR64\_R symbol,

?S: which indicates to the C program that the readdir64\_r()

?S: routine is available.

?S:.

?S:readdir64\_r\_proto:

?S: This variable encodes the prototype of readdir64\_r.

?S: It is zero if d\_readdir64\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_readdir64\_r

?S: is defined.

?S:.

?C:HAS\_READDIR64\_R:

?C: This symbol, if defined, indicates that the readdir64\_r routine

?C: is

available to readdir64 re-entrantly.

?C:.

?C:READDIR64\_R\_PROTO:

?C: This symbol encodes the prototype of readdir64\_r.

?C: It is zero if d\_readdir64\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_readdir64\_r

?C: is defined.

?C:.

?H:#\$d\_readdir64\_r HAS\_READDIR64\_R /\*\*/

?H:#define READDIR64\_R\_PROTO \$readdir64\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_readdir64\_r\_proto

: see if readdir64\_r exists

set readdir64\_r d\_readdir64\_r

eval \$inlibc

case "\$d\_readdir64\_r" in

"\$define")

hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_dirent dirent.h"

case "\$d\_readdir64\_r\_proto:\$usetthreads" in

":define") d\_readdir64\_r\_proto=define

set d\_readdir64\_r\_proto readdir64\_r \$hdrs

eval \$hasproto ;;

\*) ;;

esac

case "\$d\_readdir64\_r\_proto" in

define)

case "\$readdir64\_r\_proto" in

"|0) try='int readdir64\_r(DIR\*, struct dirent64\*, struct dirent64\*\*);'

./protochk "\$extern\_C \$try" \$hdrs && readdir64\_r\_proto=I\_TSR ;;

esac

case "\$readdir64\_r\_proto" in

"|0) try='int readdir64\_r(DIR\*,

struct dirent64\*);'

./protochk "\$extern\_C \$try" \$hdrs && readdir64\_r\_proto=I\_TS ;;

esac

case "\$readdir64\_r\_proto" in

"|0) d\_readdir64\_r=undef

readdir64\_r\_proto=0

echo "Disabling readdir64\_r, cannot determine prototype." >&4 ;;

\* ) case "\$readdir64\_r\_proto" in

```

REENTRANT_PROTO*) ;;
*) readdir64_r_proto="REENTRANT_PROTO_${readdir64_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "readdir64_r has no prototype, not using it." >&4 ;;
esac
d_readdir64_r=undef
readdir64_r_proto=0
;;
esac
;;
*) readdir64_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/threads/d\_readdir64\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setpwent\_r.U,v 0RCS:

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_setpwent\_r setpwent\_r\_proto: Inlibc Protochk Hasproto i\_systypes \  
 usethreads i\_pwd extern\_C

?MAKE: -pick add \$@ %<

?S:d\_setpwent\_r:

?S: This variable conditionally defines the HAS\_SETPWENT\_R symbol,

?S: which indicates to the C program that the setpwent\_r()

?S: routine is available.

?S:.

?S:setpwent\_r\_proto:

?S: This variable encodes the prototype of setpwent\_r.

?S: It is zero if d\_setpwent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_setpwent\_r

?S: is defined.

?S:.

?C:HAS\_SETPWENT\_R:

?C: This symbol, if defined, indicates that the setpwent\_r routine

?C: is available to

```

setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
case "$d_setpwent_r_proto:$usethreads" in
":define") d_setpwent_r_proto=define
set d_setpwent_r_proto setpwent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_setpwent_r_proto" in
define)
case "$setpwent_r_proto" in
"|0) try='int setpwent_r(FILE**);'
./prochck "$sextern_C $try" $hdrs && setpwent_r_proto=I_H ;;
esac
case "$setpwent_r_proto" in
"|0) try='void setpwent_r(FILE**);'
./prochck "$sextern_C $try" $hdrs && setpwent_r_proto=V_H ;;
esac
case "$setpwent_r_proto"
in
"|0) d_setpwent_r=undef
setpwent_r_proto=0
echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
* ) case "$setpwent_r_proto" in
REENTRANT_PROTO*) ;;
*) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "setpwent_r has no prototype, not using it." >&4 ;;

```

```
esac
d_setpwent_r=undef
setpwent_r_proto=0
;;
esac
;;
*) setpwent_r_proto=0
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_setpwent_r.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_PRIId64 d\_PRIi64 d\_PRIu64 d\_PRIo64 d\_PRIx64 d\_PRIXU64 \

sPRIId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \

quadtype i\_inttypes test cat rm\_try Setvar Compile run

?MAKE: -pick add \$@ %<

?S:d\_PRIId64:

?S: This variable conditionally defines the PERL\_PRIId64 symbol, which

?S: indicates that stdio has a symbol to print 64-bit decimal numbers.

?S:.

?S:d\_PRIi64:

?S: This variable conditionally defines the PERL\_PRIi64 symbol, which

?S: indicates that stdio has a symbol to print 64-bit decimal numbers.

?S:.

?S:d\_PRIu64:

?S: This variable conditionally defines the PERL\_PRIu64 symbol, which

?S: indicates that stdio has a symbol to print 64-bit unsigned decimal

?S: numbers.

?S:.

?S:d\_PRIo64:

?S: This variable

conditionally defines the PERL\_PRIo64 symbol, which

?S: indicates that stdio has a symbol to print 64-bit octal numbers.

?S:.

?S:d\_PRIx64:

?S: This variable conditionally defines the PERL\_PRIx64 symbol, which

?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.

?S:.

?S:d\_PRIXU64:

?S: This variable conditionally defines the PERL\_PRIXU64 symbol, which  
?S: indicates that stdio has a symbol to print 64-bit hEXADEcImAl numbers.  
?S: The 'U' in the name is to separate this from d\_PRIx64 so that even  
?S: case-blind systems can see the difference.

?S:.

?S:sPRId64:

?S: This variable, if defined, contains the string used by stdio to  
?S: format 64-bit decimal numbers (format 'd') for output.

?S:.

?S:sPRIi64:

?S: This variable, if defined, contains the string used by stdio to  
?S: format 64-bit decimal numbers (format 'i') for output.

?S:.

?S:sPRIu64:

?S: This variable, if defined, contains the string used by stdio to  
?S: format 64-bit unsigned decimal numbers (format 'u')  
for output.

?S:.

?S:sPRIo64:

?S: This variable, if defined, contains the string used by stdio to  
?S: format 64-bit octal numbers (format 'o') for output.

?S:.

?S:sPRIx64:

?S: This variable, if defined, contains the string used by stdio to  
?S: format 64-bit hexadecimal numbers (format 'x') for output.

?S:.

?S:sPRIXU64:

?S: This variable, if defined, contains the string used by stdio to  
?S: format 64-bit hEXADEcImAl numbers (format 'X') for output.  
?S: The 'U' in the name is to separate this from sPRIx64 so that even  
?S: case-blind systems can see the difference.

?S:.

?C:PERL\_PRIId64:

?C: This symbol, if defined, contains the string used by stdio to  
?C: format 64-bit decimal numbers (format 'd') for output.

?C:.

?C:PERL\_PRIi64:

?C: This symbol, if defined, contains the string used by stdio to  
?C: format 64-bit decimal numbers (format 'i') for output.

?C:.

?C:PERL\_PRIu64:

?C: This symbol, if defined, contains the string used by stdio to  
?C: format 64-bit unsigned decimal numbers (format 'u')  
for output.

?C:.

?C:PERL\_PRIo64:

?C: This symbol, if defined, contains the string used by stdio to



```

?C: format 64-bit octal numbers (format 'o') for output.
?C:.
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRiXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADEcImAl numbers (format 'X') for output.
?C:.
?H:#$d_PRIId64 PERL_PRIId64 $sPRIId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
?H:#$d_PRIx64 PERL_PRiXU64 $sPRiXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRIId64" = X -a X"$quadtype" = Xint; then
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
int q = 12345678901;

printf("%ld\n", q);
}
EOCP
set try
if eval $compile; then
yyy=`$run ./try`
case "$yyy" in
12345678901)
sPRIId64="d"; sPRIi64="i"; sPRIu64="u";
sPRIo64="o"; sPRIx64="x"; sPRiXU64="X";
echo "We will use %d."
;;
esac
fi
fi

```

```
if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
```

```
$cat >try.c <<'EOCP'
```

```
#include <sys/types.h>
```

```
#include <stdio.h>
```

```
int main() {
```

```
long q = 12345678901;
```

```
printf("%ld\n", q);
```

```
}
```

```
EOCP
```

```
set try
```

```
if eval $compile; then
```

```
yyy=`$run ./try`
```

```
case "$yyy" in
```

```
12345678901)
```

```
sPRId64="ld"; sPRIi64="li"; sPRIu64="lu";
```

```
sPRIo64="lo"; sPRIx64="lx"; sPRIXU64="lX";
```

```
echo "We will use %ld."
```

```
::
```

```
esac
```

```
fi
```

```
fi
```

```
if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
```

```
$cat >try.c <<'EOCP'
```

```
#include <sys/types.h>
```

```
#include <inttypes.h>
```

```
#include <stdio.h>
```

```
int main() {
```

```
int64_t q = 12345678901;
```

```
printf("%" PRId64 "\n", q);
```

```
}
```

```
EOCP
```

```
set try
```

```
if eval $compile; then
```

```
yyy=`$run ./try`
```

```
case "$yyy" in
```

```
12345678901)
```

```
sPRId64=PRId64;
```

```
sPRIi64=PRIi64; sPRIu64=PRIu64;
```

```
sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
```

```
echo "We will use the C9X style."
```

```
::
```

```
esac
```

```
fi
```

```
fi
```

```
if $test X"$sPRId64" = X -a X"$quadtype" != X; then
```

```

$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
    $quadtype q = 12345678901;
    printf("%Ld\n", q);
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
        12345678901)
            sPRId64="%Ld"; sPRi64="%Li"; sPRi64="%Lu";
            sPRIo64="%Lo"; sPRIx64="%Lx"; sPRIXU64="%LX";
            echo "We will use %Ld."
            ;;
        esac
    fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
    $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
    long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
    printf("%lld\n", q);
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
        12345678901)
            sPRId64="%lld"; sPRi64="%lli"; sPRi64="%llu";
            sPRIo64="%llo"; sPRIx64="%llx";
            sPRIXU64="%llX";
            echo "We will use the %lld style."
            ;;
        esac
    fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
    $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>

```

```

int main() {
    $quadtype q = 12345678901;
    printf("%qd\n", q);
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
        12345678901)
            sPRId64=""qd"; sPRIi64=""qi"; sPRIu64=""qu";
            sPRIo64=""qo"; sPRIx64=""qx"; sPRIXU64=""qX";
            echo "We will use %qd."
            ;;
        esac
    fi
fi

if $test X"$sPRId64" = X; then
    echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
    *) d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
       d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
       ;;
    *) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
       d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
       ;;
    esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/quadfio.U

No license file was found, but licenses were detected in source scan.

```

# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
# Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
# You may redistribute only under the terms of the Artistic Licence,
# as specified in the README file that comes with the distribution.
# You may reuse parts of this distribution only within the terms of
# that same Artistic Licence; a copy of which may be found at the root
# of the source tree for dist 4.0.

```

```

#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0 1993/08/18 12:04:35 ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order. It will complain and die if not. NOTE: It will still produce
# a compilable output file, even with errors, so you
# must check the output.

BEGIN {
    format = "\t\"%s\",\\n"
    printf("/*\n** This is a generated file. Do NOT edit it unless you really have to...\n*/\n\n")
    printf("char *sys_errnolist[] = {\n")
    maxerr = 89
}

$1=="#define" {
    if(count > maxerr || substr($2,1,1) != "E")
        next # we're not interested
    if($3 < count) { # this is bad
        printf("Fatal error: %s out of order at %s\n",\
            FILENAME, $2)>"/dev/tty"
        exit 1
    }
    # fill in the blanks
    while($3 > count) {
        dummy=sprintf("EDUMMY%d",count)
        printf(format,dummy)
        count++
    }
    printf(format,$2)
    count++
}

END {
    printf("\t0\n");\n")
}

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/lib/errnolist.a

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE /**/
?H:?%<:#endif
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F!:uselongdouble.cbu
: Check for uselongdouble support
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
dflt='n';;
esac
cat <<EOM
```

Perl can be built to take advantage of long doubles which  
(if available) may give more accuracy and range for floating point numbers.

If this doesn't make any sense to you, just accept the default '\$dflt'.

EOM

```
rp='Try to use long doubles if available?'
```

```
./myread
```

```
case "$ans" in
```

```
y|Y) val="$define" ;;
```

```

*)    val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac

```

```

: Look for a hint-file generated 'call-back-unit'. If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
    echo "Your platform has some specific hints regarding long doubles, using them..."
    . ./uselongdouble.cbu
else
    case "$uselongdouble" in
$define)
    $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
    ;;
    esac
fi

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/uselongdbl.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE:-pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN /**/

```

?H:  
?LINT:set d\_strnlen  
: see if strnlen exists  
set strnlen d\_strnlen  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_strnlen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2017, 2019, Karl Williamson

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:i\_wctype: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_wctype:

?S: This variable conditionally defines the I\_WCTYPE symbol,

?S: that indicates whether a C program may include <wctype.h>.

?S:.

?C:I\_WCTYPE:

?C: This symbol, if defined, indicates that <wctype.h> exists.

?C:.

?H:#\$i\_wctype I\_WCTYPE /\*\*/

?H:.

?LINT:set i\_wctype

: see if this system has wctype.h

set wctype.h i\_wctype

eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_wctype.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_gethname.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.



?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_gethname.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:13:00 ram

?RCS: patch36: call ./xenix explicitly instead of relying on PATH

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:11 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_gethname d\_uname d\_phostname aphostname: phostname cat \  
myhostname package d\_portable Loc echo n c +i\_whoami +usrinc \  
Myread Guess Oldconfig Csym

?MAKE: -pick add \$@ %<

?S:d\_gethname:

?S: This variable conditionally

defines the HAS\_GETHOSTNAME symbol, which

?S: indicates to the C program that the gethostname() routine may be

?S: used to derive the host name.

?S:.

?S:d\_uname:

?S: This variable conditionally defines the HAS\_UNAME symbol, which

?S: indicates to the C program that the uname() routine may be

?S: used to derive the host name.

?S:.

?S:d\_phostname:

?S: This variable conditionally defines the HAS\_PHOSTNAME symbol, which

?S: contains the shell command which, when fed to popen(), may be

?S: used to derive the host name.

?S:.

?S:aphostname:

?S: This variable contains the command which can be used to compute the

?S: host name. The command is fully qualified by its absolute path, to make

?S: it safe when used by a process with super-user privileges.

?S:.

?C:HAS\_GETHOSTNAME (GETHOSTNAME):

?C: This symbol, if defined, indicates that the C program may use the

?C: gethostname() routine to derive the host name. See also HAS\_UNAME

?C: and PHOSTNAME.

?C:.

?C:HAS\_UNAME (UNAME):

?C: This symbol,

if defined, indicates that the C program may use the

?C: uname() routine to derive the host name. See also HAS\_GETHOSTNAME

?C: and PHOSTNAME.

?C:.

?C:PHOSTNAME:

?C: This symbol, if defined, indicates the command to feed to the  
?C: popen() routine to derive the host name. See also HAS\_GETHOSTNAME  
?C: and HAS\_UNAME. Note that the command uses a fully qualified path,  
?C: so that it is safe even if used by a process with super-user  
?C: privileges.

?C:.

?C:HAS\_PHOSTNAME:

?C: This symbol, if defined, indicates that the C program may use the  
?C: contents of PHOSTNAME as a command to feed to the popen() routine  
?C: to derive the host name.

?C:.

```
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
```

```
?H:?%<:#$d_uname HAS_UNAME /**/
```

```
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
```

```
?H:?%<:#ifdef HAS_PHOSTNAME
```

```
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
```

```
?H:?%<:#endif
```

?H:.

?T:file val call

?LINT:change i\_whoami

: see how we will look up host name

```
echo " "
```

```
call="
```

```
@if HAS_GETHOSTNAME
```

```
if
```

```
set gethostname val -f d_gethname; eval $csym; $val; then
```

```
echo 'gethostname() found.' >&4
```

```
d_gethname="$define"
```

```
call=gethostname
```

```
fi
```

```
@end
```

```
@if HAS_UNAME
```

```
if set uname val -f d_uname; eval $csym; $val; then
```

```
if ./xenix; then
```

```
$cat <<'EOM'
```

uname() was found, but you're running xenix, and older versions of xenix  
have a broken uname(). If you don't really know whether your xenix is old  
enough to have a broken system call, use the default answer.

```
EOM
```

```
dflt=y
```

```
case "$d_uname" in
```

```
"$define") dflt=n;;
```

```
esac
```

```
rp='Is your uname() broken?'
```

```
. ./myread
```

```
case "$ans" in
```

```
n*) d_uname="$define"; call=uname;;
```

```

esac
else
echo 'uname() found.' >&4
d_uname="$define"
case "$call" in
") call=uname ;;
esac
fi
fi
@end
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
dflt=n
cat <<EOM

```

Every now and then someone has a \$call() that lies about the hostname but can't be fixed

for political or economic reasons. If you wish, I can

```
@if MYHOSTNAME && PHOSTNAME
```

pretend \$call() isn't there and maybe compile in the hostname or compute it from the '\$phostname' command at run-time.

```
@elsif MYHOSTNAME
```

pretend \$call() isn't there and maybe compile in the hostname.

```
@elsif PHOSTNAME
```

pretend \$call() isn't there and maybe compute hostname at run-time thanks to the '\$phostname' command.

```
@elsif WHOAMI
```

get the hostname from whomai.h (provided you have one).

```
@else
```

simply ignore your host name and use something like "noname" instead.

```
@end
```

```
EOM
```

```
rp="Shall I ignore $call() from now on?"
```

```
./myread
```

```
case "$ans" in
```

```
y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
```

```
esac;;
```

```
esac
```

```
@end
```

```
@if PHOSTNAME || aphostname
```

?X: Compute the full path name for the command

```
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
/*) ;;
*) set X $phostname
  shift
  file=$1
  shift
  file=`.loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
esac
;;
esac
@end
@if
PHOSTNAME && MYHOSTNAME
case "$d_underscore$d_gethostname" in
*define*) ;;
*)
case "$phostname" in
") ;;
*)
$cat <<EOT
```

There is no gethostname() or uname() on this system. You have two possibilities at this point:

- 1) You can have your host name (\$myhostname) compiled into \$package, which lets \$package start up faster, but makes your binaries non-portable, or
- 2) you can have \$package use a

```
popen("$aphostname","r")
```

which will start slower but be more portable.

```
@ if WHOAMI
```

Option 1 will give you the option of using whoami.h if you have one.

```
@ end
```

If you want option 2 but with a different command, you can edit config.sh at the end of this shell script.

```
EOT
```

```
case "$d_phostname" in
"$define") dflt=n;;
"$undef") dflt=y;;
")
```

```

case "$d_portable" in
"$define") dflt=n ;;
*) dflt=y ;;
esac;;
esac
rp="Do you want your host name compiled in?"
./myread
case "$ans" in
n*) d_phostname="$define" ;;
*) ahostname=""; d_phostname="$undef";;
esac;;
esac
case
"$aphostname" in
")
@ if WHOAMI
case "$i_whoami" in
"$define")
dflt=y
$cat <<EOM

```

No hostname function--you can either use the whoami.h file, which has this line:

```
`grep sysname $usrinc/whoami.h`
```

or you can have the name we came up with earlier (\$myhostname) hardwired in.

EOM

```

rp="Use whoami.h to get hostname?"
./myread
case "$ans" in
n*) i_whoami="$undef";;
esac
;;
"$undef")
$cat <<EOM

```

No hostname function and no whoami.h -- hardwiring "\$myhostname".

EOM

```

;;
esac;;
@ else
echo 'No hostname function -- hardwiring "$myhostname".' >&4;;
@ end
esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)

```

```

case "$phostname" in
")
@ if WHOAMI
case "$i_whoami" in
"$define")
$cat <<EOM

```

No hostname function--we'll use the whoami.h file, which has this line:

```
`grep sysname $usrinc/whoami.h`
```

EOM

```

;;
*) echo "There will be no way for $package to get your hostname." >&4;;
esac;;
@ else
echo "There will be no way
for $package to get your hostname." >&4;;
@ end
*)
echo "I'll use 'popen('"'$aphostname"', "r")' to get your hostname." >&4
;;
esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
case "$i_whoami" in
"$define")
dflt=y
$cat <<EOM

```

No hostname function--you can either use the whoami.h file, which has this line:

```
`grep sysname $usrinc/whoami.h`
```

or you can have the name we came up with earlier (\$myhostname) hardwired in.

EOM

```

rp="Use whoami.h to get hostname?"
./myread
case "$ans" in
n*) i_whoami="$undef";;
esac
;;
"$undef")
echo 'No whoami.h--hardwiring "'$myhostname'.'" >&4;;

```

```

esac;;
@ else
echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_gethname.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_cmsg\_hdr\_s: Hasstruct i\_systypes d\_socket i\_sysuio Setvar

?MAKE: -pick add \$@ %<

?S:d\_cmsg\_hdr\_s:

?S: This variable conditionally defines the HAS\_STRUCT\_CMSGHDR symbol,

?S: which indicates that the struct cmsghdr is supported.

?S:.

?C:HAS\_STRUCT\_CMSGHDR:

?C: This symbol, if defined, indicates that the struct cmsghdr

?C: is supported.

?C:.

?H:#\$d\_cmsg\_hdr\_s HAS\_STRUCT\_CMSGHDR /\*\*/

?H:.

?LINT:set d\_cmsg\_hdr\_s

: Check for cmsghdr support

echo " "

echo "Checking to see if your system supports struct cmsghdr..." >&4

set d\_cmsg\_hdr\_s cmsghdr \$i\_systypes sys/types.h \$d\_socket sys/socket.h \$i\_sysuio sys/uio.h

eval \$hasstruct

case "\$d\_cmsg\_hdr\_s" in

"\$define") echo "Yes, it does." ;;

\*) echo

"No, it doesn't." ;;

esac

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

```

5.32.1~rc1/U/perl/d\_cmsg HDR\_s.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_NOFILE.U,v \$

?RCS: Revision 3.0.1.1 1994/10/29 16:08:38 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0 1993/08/18 12:05:39 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:nofile d\_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \  
test rm Csym

?MAKE: -pick add \$@ %<

?S:nofile:

?S: This variable contains the number of file descriptors available to the

?S: process.

?S:.

?S:d\_gettblsz:

?S: This variable conditionally handles remapping

of the getdtablesize()

?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.

?S:.

?S:tablesize:

?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'

?S: and is used as the remapped value for the getdtablesize() macro.

?S:.

?C:getdtablesize:

?C: This catches use of the getdtablesize() subroutine, and remaps it

?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.

?C:.

?C:VAL\_NOFILE:

?C: This symbol contains the number of file descriptors available to the

?C: process, as determined at configuration time. Unless a static constant

?C: is needed, you should rely on getdtablesize() to obtain that number.

?C:.

?H:#\$d\_gettblsz getdtablesize() \$tablesize /\*\*/

?H:#define VAL\_NOFILE \$nofile /\* Number of file descriptors \*/

?H:.



```

?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
$undef) d_gettblsz="$define";;
esac
if
set getdtablesize val -f d_gettblsz; eval $csym; $val; then
echo 'getdtablesize() found.' >&4
d_gettblsz="$undef"
tablesize="
@if VAL_NOFILE || nofile
$cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
printf("%d\n", getdtablesize());
}
EOCP
nofile="
if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
nofile=`./nofile 2>/dev/null`
fi
if $test "$nofile"; then
echo "(You have $nofile file descriptors available per process.)"
else
nofile='20'
if ./bsd; then
nofile='64'
fi
echo "(Hmm... Let's say you have $nofile file descriptors available.)"
fi
@end
else
echo 'getdtablesize() NOT found...' >&4
if set ulimit val -f; eval $csym; $val; then
echo 'Maybe ulimit(4,0) will work...'
$cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
printf("%d %d\n",

```

```

#ifdef NOFILE
    NOFILE,
#else
    0,
#endif
    ulimit(4,0);
    exit(0);
}
EOCP
if $cc $cflags -DGETPARAM_H -o nofile nofile.c $libs
>/dev/null 2>&1 \
|| $cc $cflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
set `./nofile`
d_gettblsz=$1
d_ulimit4=$2
if $test "$d_ulimit4" -lt 0; then
echo "Your ulimit() call doesn't tell me what I want to know."
echo "We'll just use NOFILE in this case."
nofile=$d_gettblsz
d_gettblsz="$define"
tablesize='NOFILE'
else
if $test "$d_gettblsz" -gt 0; then
echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
else
echo "I had trouble getting NOFILE from your system, but" >&4
fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
dflt='y';
echo " "
rp='Should I use ulimit to get the number of available file descriptors?'
. ./myread
case "$ans" in
y*)
    nofile=$d_ulimit4
    d_gettblsz="$define"
    tablesize='ulimit(4, 0L)'
    echo "Using ulimit(4,0)."
    ;;
*)
    nofile=$d_gettblsz
    d_gettblsz="$define"
    tablesize='NOFILE'
    echo "Using NOFILE."
    ;;
esac
fi
else

```

```

echo
"Strange, I couldn't get my test program to compile."
echo "We'll just use NOFILE in this case."
d_gettblsz="$define"
tablesize='NOFILE'
nofile=""
fi
else
echo 'Using NOFILE instead.'
d_gettblsz="$define"
tablesize='NOFILE'
nofile=""
fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
")
$cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
printf("%d\n",
#ifdef NOFILE
NOFILE,
#else
0,
#endif
);
exit(0);
}
EOCP
if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
|| $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
nofile=`./nofile 2>/dev/null`
fi
if $test "$nofile"; then
echo "(You have $nofile file descriptors available per process.)"
else
nofile='20'
if ./bsd; then
nofile='64'
fi
echo "(Hmm... Let's say you have $nofile file descriptors available.)"
fi
;;

```

```
esac
@end
$rm -f nofile*
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_NOFILE.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
?S: if this system supports long long.
?S:.
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it. It is only
?C: defined
?C: if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
```

```

echo "Checking to see if you have long long..." >&4
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
  val="$define"
  echo "You have long long."
else
  val="$undef"
  echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X: Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
  echo " "
  echo "Checking to see how big your long longs are..." >&4
  $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
  printf("%d\n", (int)sizeof(long long));
  return(0);
}
EOCP
set try
if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
longs are $longlongsize bytes long."
else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  ./myread
  longlongsize="$ans"
fi
if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
fi
;;
esac
$rm_try

```

@end

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_longlong.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_memmove.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_memmove.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:35 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_memmove: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_memmove:

?S: This variable conditionally defines the HAS\_MEMMOVE symbol, which

?S: indicates to the C program that the memmove() routine is available

?S: to copy potentially overlapping blocks of memory.

?S:.

?C:HAS\_MEMMOVE:

?C: This symbol, if defined, indicates that the memmove routine  
is available

?C: to copy potentially overlapping blocks of memory. This should be used

?C: only when HAS\_SAFE\_BCOPY is not defined. If neither is there, roll your

?C: own version.

?C:.

?H:#\$d\_memmove HAS\_MEMMOVE /\*\*/

?H:.

?LINT:set d\_memmove

: see if memmove exists

set memmove d\_memmove

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_memmove.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_strtol.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp \$

```

?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:46:43 ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtol: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtol:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This
symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtol HAS_STRTOUL /**/
?H:.
?F:!try
: see if strtoul exists
set strtoul d_strtol
eval $inlibc

case "$d_strtol" in
"$define")
$cat <<EOM
Checking whether your strtoul() works okay...
EOM
$cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
unsigned long gul;
errno = 0;
gul = strtoul(s, 0, 10);

```

```

if (!(gul == eul) && (errno == een))
    bad++;
}
int main() {
    check(" 1", 1L, 0);
    check(" 0", 0L, 0);
EOCP
case "$longsize" in
8)
    $cat >>try.c <<'EOCP'
    check("18446744073709551615", 18446744073709551615UL, 0);
    check("18446744073709551616", 18446744073709551615UL, ERANGE);
    #if 0 /* strtoul() for /^-/ strings is undefined. */
    check("-1", 18446744073709551615UL, 0);
    check("-18446744073709551614", 2, 0);
    check("-18446744073709551615", 1,
0);
    check("-18446744073709551616", 18446744073709551615UL, ERANGE);
    check("-18446744073709551617", 18446744073709551615UL, ERANGE);
    #endif
EOCP
;;
4)
    $cat >>try.c <<'EOCP'
    check("4294967295", 4294967295UL, 0);
    check("4294967296", 4294967295UL, ERANGE);
    #if 0 /* strtoul() for /^-/ strings is undefined. */
    check("-1", 4294967295UL, 0);
    check("-4294967294", 2, 0);
    check("-4294967295", 1, 0);
    check("-4294967296", 4294967295UL, ERANGE);
    check("-4294967297", 4294967295UL, ERANGE);
    #endif
EOCP
;;
*)
: Should we write these tests to be more portable by sprintf-ing
: ~0 and then manipulating that char string as input for strtol?
;;
esac
$cat >>try.c <<'EOCP'
if (!bad)
    printf("ok\n");
return 0;
}
EOCP
set try
if eval $compile; then

```



```
case "$run ./try`" in
ok) echo "Your strtoul() seems to be working okay." ;;
*) cat <<EOM >&4
Your strtoul() doesn't seem to be working okay.
```

EOM

```
    d_strtoul="$undef"
    ;;
esac
else
    echo "(I can't seem to compile the test
program--assuming it doesn't)"
    d_strtoul="$undef"
fi
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d_strtoul.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: randfunc.U,v \$

?RCS: Revision 3.0 1993/08/18 12:09:39 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This is the new unit that should be used when random

?X: functions are to be used. It thus makes randbits.U obsolete.

?X:

?X: This unit gives a simple #define for Drand01, which produces

?X: doubles in the range [0,1) using the "best" random number

?X: generator available. The source should just call Drand01

?X: and not worry about the underlying

implementation.

?X: Andy Dougherty July 1998

?X:

?MAKE:randfunc drand01 seedfunc randbits randseedtype: \

Compile Myread Csym cflags

?MAKE: -pick add \$@ %<

?S:randfunc:

?S: Indicates the name of the random number function to use.

?S: Values include drand48, random, and rand. In C programs,

?S: the 'Drand01' macro is defined to generate uniformly distributed

?S: random numbers over the range [0., 1.[ (see drand01 and nrand).

?S:.

?S:drand01:

?S: Indicates the macro to be used to generate normalized

?S: random numbers. Uses randfunc, often divided by

?S: (double) (((unsigned long) 1 << randbits)) in order to

?S: normalize the result.

?S: In C programs, the macro 'Drand01' is mapped to drand01.

?S:.

?S:randseedtype:

?S: Indicates the type of the argument of the seedfunc.

?S:.

?S:seedfunc:

?S: Indicates the random number generating seed function.

?S: Values include srand48, srandom, and srand.

?S:.

?S:randbits:

?S: Indicates how many bits are produced by the function used to

?S: generate

normalized random numbers.

?S:.

?C:RANDFUNC:

?C: This symbol defines the random function used to define Drand01().

?C:.

?C:Drand01:

?C: This macro is to be used to generate uniformly distributed

?C: random numbers over the range [0., 1.[. You may have to supply

?C: an 'extern double drand48();' in your program since SunOS 4.1.3

?C: doesn't provide you with anything relevant in its headers.

?C: See HAS\_DRAND48\_PROTO.

?C:.

?C:Rand\_seed\_t:

?C: This symbol defines the type of the argument of the

?C: random seed function.

?C:.

?C:seedDrand01:

?C: This symbol defines the macro to be used in seeding the

?C: random number generator (see Drand01).

?C:.

?C:RANDBITS:

?C: This symbol indicates how many bits are produced by the

?C: function used to generate normalized random numbers.

?C: Values include 15, 16, 31, and 48.

```

?C:.
?H:#define RANDFUNC $randfunc /**/
?H:#define Drand01() $drand01 /**/
?H:#define Rand_seed_t $randseedtype /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
  RANDBITS $randbits /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=|*-Dmy_srand=*)
echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'"
ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'"
ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'"
;;
esac

randfunc=Perl_drand48
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
randbits=48
randseedtype=U32

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/randfunc.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0 1993/08/18 12:09:23 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:

```

```

?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front. See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
the ~ expanded name of the news library
?S: directory. See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library. The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib" /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
case "$newslib" in
")
dflt=/usr/lib/news
;;
*) dflt=$newslib ;;
esac
echo " "
fn=d~
rp='Where is your news library?'
./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
echo "Aha! Inews is really in $newslibexp! Maybe this is 2.10.2..." >&4
case "$inews" in
inews)
: null
;;
*) echo "(Make sure $inews isn't an old version.)";;
esac
inews=$newslibexp/inews
fi

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/newslib.U

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?RCS:

?MAKE:d\_atoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atoll:

?S: This variable conditionally defines the HAS\_ATOLL symbol, which

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS\_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d\_atoll HAS\_ATOLL /\*\*/

?H:.

?LINT:set d\_atoll

: see if atoll exists

set atoll d\_atoll

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/atoll.U

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?RCS:

?RCS: \$Log: d\_setpgrp.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:44:16 ram

?RCS: patch61: obsoleted USE\_BSDGRP in favor of USE\_BSD\_SETPGRP

?RCS: patch61: another unit now also defines a USE\_BSD\_GETPGRP

```

?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25 13:59:30 ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:15:37 ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
+ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpggrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none. See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP /**/
?H:#$d_bsdsetpgrp
USE_BSD_SETPGRP /**/
?H:.
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")

```

```

echo " "
echo "Checking to see which flavor of setpgrp is in use..."
$cat >set.c <<EOP
#i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
# include <unistd.h>
#endif
int main()
{
if (getuid() == 0) {
printf("(I see you are running Configure as super-user...)\n");
setuid(1);
}
#ifdef TRY_BSD_PGRP
if (-1 == setpgrp(1, 1))
exit(0);
#else
if (setpgrp() != -1)
exit(0);
#endif
exit(1);
}
EOP
if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
val="$define"
elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
val="$undef"
else
echo "(I can't
seem to compile and run the test program.)"
if ./usg; then
xxx="a USG one, i.e. you use setpgrp()."
else
# SVR4 systems can appear rather BSD-ish.
case "$i_unistd" in
$undef)
xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
val="$define"
;;
$define)
xxx="probably a USG one, i.e. you use setpgrp()."
val="$undef"
;;
esac
fi

```

```

    echo "Assuming your setpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_setpgrp.U

```

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>

?RCS:

?RCS: \$Log: sizetype.U,v \$

?RCS: Revision 3.0.1.1 1994/08/29 16:32:10 ram

?RCS: patch32: created by ADO

?RCS:

?MAKE:sizetype: Myread Typedef

?MAKE: -pick add \$@ %<

?S:sizetype:

?S: This variable defines sizetype to be something like size\_t,

?S: unsigned long, or whatever type is used to declare length

?S: parameters for string functions.

?S:.

?C:Size\_t:

?C: This symbol holds the type used to declare length parameters

?C: for string

functions. It is usually size\_t, but may be

?C: unsigned long, int, etc. It may be necessary to include

?C: <sys/types.h> to get any typedef'ed information.

?C:.

?H:#define Size\_t \$sizetype /\* length paramater for string functions \*/

?H:.

: see what type is used for size\_t



```
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $stypedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
./myread
sizetype="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sizetype.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getprotoent\_r.U,v 0RCS:

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?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_getprotoent\_r getprotoent\_r\_proto: Inlibc Protochk Hasproto \  
i\_systypes usethreads i\_netdb extern\_C

?MAKE: -pick add \$@ %<

?S:d\_getprotoent\_r:

?S: This variable conditionally defines the HAS\_GETPROTOENT\_R symbol,

?S: which indicates to the C program that the getprotoent\_r()

?S: routine is available.

?S:.

?S:getprotoent\_r\_proto:

?S: This variable encodes the prototype of getprotoent\_r.

?S: It is zero if d\_getprotoent\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getprotoent\_r

?S: is defined.

?S:.

?C:HAS\_GETPROTOENT\_R:

?C: This symbol, if defined, indicates that the getprotoent\_r  
routine

?C: is available to getprotoent re-entrantly.

?C:.

?C:GETPROTOENT\_R\_PROTO:

?C: This symbol encodes the prototype of getprotoent\_r.

?C: It is zero if d\_getprotoent\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getprotoent\_r

?C: is defined.

?C:.

?H:#\$d\_getprotoent\_r HAS\_GETPROTOENT\_R /\*\*/

?H:#define GETPROTOENT\_R\_PROTO \$getprotoent\_r\_proto /\*\*/

```

?H:
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getprotoent_r_proto:$usethreads" in
":define") d_getprotoent_r_proto=define
set d_getprotoent_r_proto getprotoent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_getprotoent_r_proto" in
define)
case "$getprotoent_r_proto" in
"|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
./protochk "$$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
;;
esac
case "$getprotoent_r_proto" in
"|0) try='int getprotoent_r(struct protoent*, char*, int);'
./protochk "$$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
esac
case "$getprotoent_r_proto" in
"|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
./protochk "$$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
esac
case "$getprotoent_r_proto" in
"|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
./protochk "$$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
esac
case "$getprotoent_r_proto" in
"|0) d_getprotoent_r=undef
getprotoent_r_proto=0
echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
*) case "$getprotoent_r_proto" in
REENTRANT_PROTO*) ;;
*) getprotoent_r_proto="REENTRANT_PROTO_${getprotoent_r_proto}" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
esac
d_getprotoent_r=undef

```

```
getprotoent_r_proto=0
;;
esac
;;
*) getprotoent_r_proto=0
;;
esac
```

Found

in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_getprotoent_r.U
```

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?RCS: \$Id: d\_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp \$

?RCS:

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?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_vprintf.U,v \$

?RCS: Revision 3.0 1993/08/18 12:07:59 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_vprintf d\_charvspr: Compile Guess cat Csym Setvar run rm\_try \  
i\_stdlib i\_unistd i\_stdarg i\_varargs

?MAKE: -pick add \$@ %<

?S:d\_vprintf:

?S: This variable conditionally defines the HAS\_VPRINTF symbol, which

?S: indicates to the C program that the vprintf() routine is available

?S: to printf with a pointer to an argument list.

?S:.

?S:d\_charvspr:

?S: This

variable conditionally defines CHARVSPRINTF if this system

?S: has vsprintf returning type (char\*). The trend seems to be to

?S: declare it as "int vsprintf()".

?S:.

?C:HAS\_VPRINTF (VPRINTF):

?C: This symbol, if defined, indicates that the vprintf routine is available

?C: to printf with a pointer to an argument list. If unavailable, you

?C: may need to write your own, probably in terms of \_doprnt().

?C:.

?C:USE\_CHAR\_VSPRINTF (CHARVSPRINTF):

?C: This symbol is defined if this system has vsprintf() returning type  
?C: (char\*). The trend seems to be to declare it as "int vsprintf()". It  
?C: is up to the package author to declare vsprintf correctly based on the  
?C: symbol.

?C:.

```
?H:#$d_vprintf HAS_VPRINTF /**/
```

```
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
```

?H:.

?T:val2

?F:!try

```
?LINT:set d_vprintf d_charvspr
```

: see if vprintf exists

```
echo " "
```

```
if set vprintf val -f d_vprintf; eval $csym; $val; then
```

```
echo 'vprintf() found.' >&4
```

```
val="$define"
```

```
$cat >try.c <<EOF
```

```
#$i_stdarg I_STDARG /*
```

```
Only one of these can be defined by i_varhrd */
```

```
#$i_varargs I_VARARGS
```

```
#$i_stdlib I_STDLIB
```

```
#$i_unistd I_UNISTD
```

```
#ifdef I_STDARG
```

```
# include <stdarg.h>
```

```
#else /* I_VARARGS */
```

```
# include <varargs.h>
```

```
#endif
```

```
#ifdef I_UNISTD
```

```
# include <unistd.h>
```

```
#endif
```

```
#ifdef I_STDLIB
```

```
# include <stdlib.h>
```

```
#endif
```

```
#include <stdio.h> /* vsprintf prototype */
```

```
#ifdef I_STDARG
```

```
void xxx(int n, ...)
```

```
{
```

```
va_list args;
```

```
char buf[10];
```

```
va_start(args, n);
```

```
exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
```

```
}
```

```

int main() { xxx(1, "foo"); }

#else /* I_VARARGS */

xxx(va_alist)
va_dcl
{
    va_list args;
    char buf[10];
    va_start(args);
    exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif

EOF
set try
if eval $compile_ok; then
if $run ./try; then
    echo "Your vsprintf() returns (int)." >&4
    val2="$undef"
else
    echo "Your vsprintf() returns (char*)." >&4
    val2="$define"
fi
else
    echo 'I am unable to compile the vsprintf() test program.' >&4
    #
    We shouldn't get here. If we do, assume the standard signature,
    # not the old BSD one.
    echo 'Guessing that vsprintf() returns (int).' >&4
    val2="$undef"
fi
else
    echo 'vprintf() NOT found.' >&4
    val="$undef"
    val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

```

5.32.1~rc1/U/compline/d\_vprintf.U

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?RCS:

?MAKE:d\_fmax: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fmax:

?S: This variable conditionally defines the HAS\_FMAX symbol, which

?S: indicates to the C program that the fmax() routine is available.

?S:.

?C:HAS\_FMAX:

?C: This symbol, if defined, indicates that the fmax routine is

?C: available to do the maximum function.

?C:.

?H:#\$d\_fmax HAS\_FMAX /\*\*/

?H:.

?LINT:set d\_fmax

: see if fmax exists

set fmax d\_fmax

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/perl/d\_fmax.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_brokstat.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:30:53 ram

?RCS: patch61: created

?RCS:

?MAKE:d\_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar

?MAKE: -pick add \$@ %<

?S:d\_brokstat:

?S: This variable conditionally defines STAT\_MACROS\_BROKEN if some

?S: of the S\_IS\*() macros from <sys/stat.h> give false positive on

?S: regular files.

```

?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
    as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN /**/
?H:.
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif

#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
#endif
#endif
EOC
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
echo "Alas, they are. I'll use my own macro set then." >&4
val="$define"

```

```
else
echo "Nope, working just fine." >&4
val="$undef"
fi
$rm
-f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_brokstat.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_syslog.U,v $
```

```
?RCS: Revision 3.0.1.1 1997/02/28 15:46:56 ram
```

```
?RCS: patch61: replaced .o with $_o all over the place
```

```
?RCS:
```

```
?RCS: Revision 3.0 1993/08/18 12:07:43 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_syslog: test Csym Setvar Findhdr
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_syslog:
```

```
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
```

```
?S: indicates to the C program that syslog() exists on this system.
```

```
?S:.
```

```
?C:HAS_SYSLOG
```

```
(LIBSYSLOG):
```

```
?C: This symbol, if defined, indicates that the program can rely on the
```

```
?C: system providing syslog(). Otherwise, the syslog code provided by
```

```
?C: the package should be used.
```

```
?C:.
```

```
?H:#$d_syslog HAS_SYSLOG /**/
```

```
?H:.
```

```
?LINT:set d_syslog
```

```
: see if syslog is available
```

```
echo " "
```



```

if $test `./findhdr syslog.h` && \
(set syslog val -f d_syslog; eval $csym; $val); then
echo "syslog() found." >&4
val="$define"
else
echo "syslog() not found in your C library." >&4
val="$undef"
fi
set d_syslog
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_syslog.U

```

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```

?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:38 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgctl:
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
HAS_MSGCTL /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_msgctl.U

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?RCS: \$Id\$

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_gethbynm.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:08 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_gethbynm: Inlibc

?MAKE: -pick add @\$@ %<

?S:d\_gethbynm (d\_gethstby):

?S: This variable conditionally defines the HAS\_GETHOSTBYNAME symbol, which

?S: indicates to the C program that the gethostbyname() routine is available

?S: to lookup host names in some data base or other.

?S:.

?C:HAS\_GETHOSTBYNAME (GETHOSTBYNAME):

?C: This symbol, if defined, indicates that the gethostbyname()  
routine is

?C: available to lookup host names in some data base or other.

?C:.

?H:#\$d\_gethbynm HAS\_GETHOSTBYNAME /\*\*/

?H:.

?LINT:set d\_gethbynm

: see if gethostbyname exists

set gethostbyname d\_gethbynm

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_gethbynm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: sockopt.U,v \$

?RCS: Revision 3.0.1.1 1995/07/25 14:16:14 ram

?RCS: patch56: obsoleted KEEPALIVE in favor of CAN\_KEEPALIVE for consistency

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:48 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \  
d\_oldsock libs Oldconfig Setvar Findhdr \  
?MAKE: -pick add \$@ %<  
?S:d\_keepalive:  
?S: This symbol conditionally defines CAN\_KEEPALIVE which indicates to the C  
?S: program that setsockopt  
SO\_KEEPALIVE will work properly.  
?S:.  
?C:CAN\_KEEPALIVE (KEEPALIVE):  
?C: This symbol if defined indicates to the C program that the SO\_KEEPALIVE  
?C: option of setsockopt() will work as advertised in the manual.  
?C:.  
?H:#\$d\_keepalive CAN\_KEEPALIVE /\*\*/  
?H:.  
?F:!socket  
?LINT:set d\_keepalive  
: see if setsockopt with SO\_KEEPALIVE works as advertised  
echo " "  
case "\$d\_oldsock" in  
"\$undef")  
if \$contains SO\_KEEPALIVE `./findhdr sys/socket.h` \  
/dev/null >/dev/null 2>&1  
then  
echo "OK, let's see if SO\_KEEPALIVE works as advertised..." >&4  
\$cat > socket.c <<EOP  
#include <sys/types.h>  
#include <sys/socket.h>  
#include <netinet/in.h>  
#include <netdb.h>  
  
int main()  
{  
int s = socket(AF\_INET, SOCK\_STREAM, 0);  
if (s == -1)  
exit(1);  
if (-1 == setsockopt(s, SOL\_SOCKET, SO\_KEEPALIVE, 0, 0))

```

    exit(2);
    exit(0);
}
EOP
if $cc $ccflags $sockethdr -o socket socket.c $libs \
    $socketlib >/dev/null 2>&1; then
    ./socket >/dev/null 2>&1
    case $? in
    0) echo "Yes, it does!"
        val="$define";;
    1)
    $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
        val="$undef";;
    2) echo "No, it doesn't. Don't trust your manuals!!"
        val="$undef";;
    esac
    else
    cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
        val="$undef"
    fi
    else
    echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
    val="$undef"
    fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
    val="$undef";;
    esac
    set d_keepalive
    eval $setvar
    $rm -f socket socket.c

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/sockopt.U
```

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: libpth.U,v \$  
?RCS: Revision 3.0.1.6 1997/02/28 16:08:49 ram  
?RCS: patch61: new loclibpth variable  
?RCS:  
?RCS: Revision 3.0.1.5 1995/01/11 15:31:30 ram  
?RCS: patch45: call ./mips instead of just mips (WED)  
?RCS:  
?RCS: Revision 3.0.1.4 1994/08/29 16:29:15 ram  
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)  
?RCS: patch32: fixed information message, making it clearer (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/06/20 07:03:54 ram  
?RCS: patch30: added /usr/shlib to  
glibpth for shared-only libraries  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/13 15:26:57 ram  
?RCS: patch27: fixed a typo (libpth -> glibpth)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 15:07:53 ram  
?RCS: patch23: now asks for library directories to be searched (ADO)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:02 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit initializes the path for C library lookup.  
?X:  
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \  
usrinc incpath test cat Myread Oldconfig  
?MAKE: -pick add \$@ %<  
?S:libpth:  
?S: This variable holds the general path (space-separated) used to find  
?S: libraries. It is intended to be used by other units.  
?S:.  
?S:glibpth:  
?S: This variable holds the general path (space-separated) used to  
?S: find libraries. It may contain directories that do not exist on  
?S: this platform, libpth is the cleaned-up version.  
?S:.  
?S:xlibpth:  
?S: This variable holds extra path (space-separated) used to find  
?S: libraries on this platform,  
for example CPU-specific libraries  
?S: (on multi-CPU platforms) may be listed here.

?S:.

?S:loclibpth:

?S: This variable holds the paths (space-separated) used to find local  
 ?S: libraries. It is prepended to libpth, and is intended to be easily  
 ?S: set from the command line.

?S:.

?S:plibpth:

?S: Holds the private path used by Configure to find out the libraries.  
 ?S: Its value is prepend to libpth. This variable takes care of special  
 ?S: machines, like the mips. Usually, it should be empty.

?S:.

?T: xxx dlist

?LINT:use usrinc

?INIT:: change the next line if compiling for Xenix/286 on Xenix/386  
 ?INIT:xlibpth='/usr/lib/386 /lib/386'  
 ?INIT:: Possible local library directories to search.  
 ?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"  
 ?INIT:loclibpth="\$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"  
 ?INIT:  
 ?INIT:: general looking path for locating libraries  
 ?INIT:glibpth="/lib /usr/lib \$xlibpth"  
 ?INIT:glibpth="\$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"  
 ?X: /shlib  
 is for Digital Unix 4.0  
 ?X: /usr/shlib is for OSF/1 systems.  
 ?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib \$glibpth"  
 ?INIT:test -f /shlib/libc.so && glibpth="/shlib \$glibpth"  
 ?INIT:  
 ?INIT:: Private path used by Configure to find libraries. Its value  
 ?INIT:: is prepended to libpth. This variable takes care of special  
 ?INIT:: machines, like the mips. Usually, it should be empty.  
 ?INIT:plibpth=""  
 ?INIT:  
 : Set private lib path  
 case "\$plibpth" in  
 ") if ./mips; then  
 ?X: on mips, we DO NOT want /lib, and we want \$incpath/usr/lib  
 plibpth="\$incpath/usr/lib /usr/local/lib /usr/ccs/lib"  
 fi;;  
 esac  
 case "\$libpth" in  
 ') dlist="";;  
 ") dlist="\$loclibpth \$plibpth \$glibpth";;  
 \*) dlist="\$libpth";;  
 esac

: Now check and see which directories actually exist, avoiding duplicates  
 libpth=""

```

for xxx in $dlist
do
  if $test -d $xxx; then
  case " $libpth " in
  *" $xxx ") ;;
  *) libpth="$libpth $xxx";;
  esac
  fi
done
$cat <<'EOM'

```

Some systems have incompatible or broken versions of libraries. Among the directories listed in the question below, please remove any you know not to be holding relevant libraries, and add any that are needed. Say "none" for none.

```

EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
set X $libpth
shift
dflt=${1+"$@"}
;;
esac
rp="Directories to use for library searches?"
./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/libpth.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
```

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```

```
?RCS: of the source tree for dist 3.0.
```

```

?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:28:19 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:37 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This
symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it. It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
echo "Checking to see how big your pointers are..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
printf("%d\n", (int)sizeof(void *));
exit(0);
}
EOCP
set try
if eval $compile_ok; then
ptrsize=`$run ./try`
echo "Your pointers are $ptrsize bytes long."
else
dflt='4'

```



```
echo "(I can't seem to compile the test program. Guessing...)" >&4
rp="What is the size of a pointer (in bytes)?"
./myread
ptrsize="$ans"
fi
;;
esac
$rm_try
case "$use64bitall" in
"$define"|true|[yY]*)
case "$ptrsize" in
4) cat <<EOM >&4
```

```
*** You
have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
```

EOM

```
case "$d_quad" in
define)
cat <<EOM >&4
```

```
*** Since you have quads, you could possibly try with -Duse64bitint.
```

EOM

```
;;
esac
cat <<EOM >&4
```

```
*** Cannot continue, aborting.
```

EOM

```
exit 1
;;
esac
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/ptrsize.U
```

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?RCS: \$Id\$

?RCS:

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: pager.U,v \$  
?RCS: Revision 3.0.1.2 1995/01/30 14:41:26 ram  
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/10/29 16:27:45 ram  
?RCS: patch36: replaced Myread by Getfile in the dependency line  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:30 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE: pager: pg more less Getfile Oldconfig  
?MAKE: -pick add \$@ %<  
?S: pager:  
?S: This variable contains the name of the preferred pager  
on the system.  
?S: Usual values are (the full pathnames of) more, less, pg, or cat.  
?S:.  
: locate the preferred pager for this system  
fn=f/  
case "\$pager" in  
")  
dflt="  
case "\$pg" in  
/\*) dflt=\$pg;;  
[a-zA-Z]:/\*) dflt=\$pg;;  
esac  
case "\$more" in  
/\*) dflt=\$more;;  
[a-zA-Z]:/\*) dflt=\$more;;  
esac  
case "\$less" in  
/\*) dflt=\$less;;  
[a-zA-Z]:/\*) dflt=\$less;;  
esac  
case "\$dflt" in  
") dflt=/usr/ucb/more;;  
esac  
;;  
\*) dflt="\$pager"  
;;  
esac  
?X: Instruct ./getfile to trust the default pager value,  
?X: even if it does not begin with a slash. For example, on os2,  
?X: pager might be cmd/c more. Also, it might include some options,  
?X: such as '/usr/bin/less -R'. ./getfile would report that

```
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
./getfile
pager="$ans"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/pager.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
```

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```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: vendorprefix.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
Getfile Loc Oldconfig cat prefix Myread
```

```
?MAKE: -pick add $@ %<
```

```
?S:usevendorprefix:
```

```
?S: This variable tells whether the vendorprefix
```

```
?S: and consequently other vendor* paths are in use.
```

```
?S:.
```

```
?S:vendorprefix:
```

```
?S: This variable holds the full absolute path of the directory below
```

```
?S: which
```

```
the vendor will install add-on packages.
```

```
?S: See INSTALL for usage and examples.
```

```
?S:.
```

```
?S:vendorprefixexp:
```

```
?S: This variable holds the full absolute path of the directory below
```

```
?S: which the vendor will install add-on packages. Derived from vendorprefix.
```

```
?S:.
```

```
?S:oldvendorprefix:
```

```
?S: This variable is set non-null if the vendorprefix was previously defined
```

```
?S: and gets set to a new value. Used internally by Configure only.
```

```
?S:.
```

: Set the vendorprefix variables

```
$cat <<EOM
```

The installation process will also create a directory for vendor-supplied add-ons. Vendors who supply perl with their system may find it convenient to place all vendor-supplied files in this directory rather than in the main distribution directory. This will ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see fit. For example, you might use them to access modules shared over a company-wide network.

The default answer should be fine for most people.

This causes further questions about vendor add-ons to be skipped and no vendor-specific directories will be configured for perl.

EOM

```
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
case "$vendorprefix" in
'|' ) dflt=n ;;
*) dflt=y ;;
esac
;;
esac
./myread
case "$ans" in
[yY]*) fn=d~+
rp='Installation prefix to use for vendor-supplied add-ons?'
case "$vendorprefix" in
") dflt="$prefix" ;;
*) dflt=$vendorprefix ;;
esac
./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldvendorprefix="
case "$vendorprefix" in
") ;;
*) case "$ans" in
"$prefix" ) ;;
*) oldvendorprefix="$prefix";;
esac
;;
esac
```

```
usevendorprefix="$define"  
vendorprefix="$ans"  
vendorprefixexp="$sansexp"  
;;  
) usevendorprefix="$undef"  
vendorprefix="  
vendorprefixexp="  
;;  
esac
```

Found in path(s):

\*

/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorprefix.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: libs.U,v \$

?RCS: Revision 3.0.1.6 1997/02/28 16:09:11 ram

?RCS: patch61: replaced .a with \$\_a all over the place

?RCS:

?RCS: Revision 3.0.1.5 1995/07/25 14:12:05 ram

?RCS: patch56: now knows about OS/2 platforms

?RCS:

?RCS: Revision 3.0.1.4 1994/10/29 16:24:22 ram

?RCS: patch36: removed old broken thislib/thatlib processing (ADO)

?RCS:

?RCS: Revision 3.0.1.3 1994/06/20 07:05:44 ram

?RCS: patch30: code cleanup with if/elif by ADO and RAM

?RCS: patch30: undone patch23 for libswanted default

setting

?RCS:

?RCS: Revision 3.0.1.2 1994/05/06 15:08:45 ram

?RCS: patch23: now includes ordered default libswanted variable (ADO)

?RCS: patch23: major cleanup for library lookups (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1993/08/25 14:02:31 ram

?RCS: patch6: added default for libs

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:03 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \  
test cat Myread Oldconfig Loc libpth package xlibpth so \_a \  
+usesocks sed +cc +ccflags +ldflags rm

?MAKE: -pick add \$@ %<

?S:libs:

?S: This variable holds the additional libraries we want to use.

?S: It is up to the Makefile to deal with it. The list can be empty.

?S:.

?S:libsfound:

?S: This variable holds the full pathnames of the libraries

?S: we found and accepted.

?S:.

?S:libsfiles:

?S: This variable holds the filenames aka basenames of the libraries

?S: we found and accepted.

?S:.

?S:libsdirs:

?S: This variable holds the directory  
names aka dirnames of the libraries

?S: we found and accepted, duplicates are removed.

?S:.

?S:libspath:

?S: This variable holds the directory names probed for libraries.

?S:.

?S:libscheck:

?S: This variable is intended to be set by hint files, if needed.

?S: It should contain shell code that will be eval'ed with \$xxx holding

?S: some library file. It may change \$xxx if needed.

?S: For instance, on an Irix platform, you may make sure the right

?S: library file is used depending on the cc command line, so that the

?S: correct library is used depending on the selected ABI (for 32 and

?S: 64-bit compilations).

?S:

?S: Here is an example of code that could be found in a hint file on Irix

?S: when the selected compiler was for 32-bit -- that code is put in the

?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its

?S: flags have been chosen:

?S:

?S: libscheck='case "\$xxx" in

?S: \*.a) /bin/ar p \$xxx ` /bin/ar t \$xxx | sed q` >\$\$o;

?S: case "` /usr/bin/file \$\$o`" in

?S: \*N32\*)

rm -f \$\$o ;;

?S: \*) rm -f \$\$o; xxx=/no/n32\$xxx ;;

?S: esac ;;

```

?S: *) case "`/usr/bin/file $xxx`" in
?S: *N32*) ;;
?S: *) xxx=/no/n32$xxx ;;
?S: esac ;;
?S: esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time. Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
'|') dflt="";;
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.

```

?X: This does not work if somebody wants SOCKS 4.

```
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
  test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
do
  for thisdir in $libspath; do
    xxx="
    if test ! -f "$xxx" ; then
      xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
      $test -f "$xxx" && eval $libscheck
      $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
      xxx=$thisdir/lib$thislib.$so
      $test -f "$xxx" && eval $libscheck
      $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
      xxx=$thisdir/lib$thislib$_a
      $test -f "$xxx" && eval $libscheck
      $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
      xxx=$thisdir/$thislib$_a
      $test -f "$xxx" && eval $libscheck
      $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
      xxx=$thisdir/lib${thislib}_s$_a
      $test -f "$xxx" && eval $libscheck
      $test -f "$xxx" && libstyle=static
      $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
      xxx=$thisdir/Slib$thislib$_a
      $test -f "$xxx" && eval $libscheck
    $test
```



```

-f "$xxx" && libstyle=static
  fi
  if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk. We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library. On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X: --RAM, 10/10/2003
?X:
  if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
  then
  linkmsg=""
  else
  linkmsg=" but I can't link against it"
  fi
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)$linkmsg." ;;
  static) echo "Found -l$thislib$linkmsg." ;;
  *)    echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib" *) ;;
  *)
  case "$linkmsg" in
  ")
  dflt="$dflt -l$thislib"
  libsfound="$libsfound $xxx"
  yyy=`basename $xxx`
  libsfiles="$libsfiles $yyy"
  yyy=`echo $xxx|sed -e "s%/$yyy\\|\\$%%"`
  case " $libdirs
" in
  *" $yyy" *) ;;
  *) libdirs="$libdirs $yyy" ;;
  esac
  ;;
  esac
  ;;
  esac
  break
  fi
done
if $test ! -f "$xxx"; then
  echo "No -l$thislib."
fi
done
set X $dflt

```

```

shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
'|") dflt='none';;
esac
$rm -f lt.c lt

```

\$cat <<EOM

In order to compile \$package on your machine, a number of libraries are usually needed. Include any other special libraries here as well.

Say "none" for none. The default list is almost always right.

EOM

```

echo " "
rp="Which libraries to use?"
./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/libs.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_srand48\_r.U,v 0RCS:

?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.

?RCS:

?MAKE:d\_srand48\_r srand48\_r\_proto: Inlibc Protochk Hasproto i\_systypes \
usethreads i\_stdlib extern\_C

?MAKE: -pick add \$@ %<

?S:d\_srand48\_r:

?S: This variable conditionally defines the HAS\_SRAND48\_R symbol,

?S: which indicates to the C program that the srand48\_r()

?S: routine is available.

?S:.

?S:srand48\_r\_proto:

?S: This variable encodes the prototype of srand48\_r.

?S: It is zero if d\_srand48\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_srand48\_r

?S: is defined.

?S:.

?C:HAS\_SRAND48\_R:

?C: This symbol, if defined, indicates that the srand48\_r routine

?C: is available to srand48 re-entrantly.

?C:.

?C:SRAND48\_R\_PROTO:

?C: This

symbol encodes the prototype of srand48\_r.

?C: It is zero if d\_srand48\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_srand48\_r

?C: is defined.

?C:.

?H:#\$d\_srand48\_r HAS\_SRAND48\_R /\*\*/

?H:#define SRAND48\_R\_PROTO \$srand48\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_srand48\_r\_proto

: see if srand48\_r exists

set srand48\_r d\_srand48\_r

eval \$inlibc

case "\$d\_srand48\_r" in

"\$define")

hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_stdlib stdlib.h"

case "\$d\_srand48\_r\_proto:\$susethreads" in

":define") d\_srand48\_r\_proto=define

set d\_srand48\_r\_proto srand48\_r \$hdrs

eval \$hasproto ;;

\*) ;;

esac

case "\$d\_srand48\_r\_proto" in

define)

case "\$srand48\_r\_proto" in

"|0) try='int srand48\_r(long, struct drand48\_data\*);'

./protochk "\$extern\_C \$try" \$hdrs && srand48\_r\_proto=I\_LS ;;

esac

case "\$srand48\_r\_proto" in

"|0) d\_srand48\_r=undef

srand48\_r\_proto=0

echo "Disabling srand48\_r, cannot determine prototype." >&4 ;;

\* ) case

"\$srand48\_r\_proto" in

REENTRANT\_PROTO\*) ;;

\*) srand48\_r\_proto="REENTRANT\_PROTO\_\$srand48\_r\_proto" ;;

esac

echo "Prototype: \$try" ;;

```

esac
;;
*) case "$susetthreads" in
define) echo "srand48_r has no prototype, not using it." >&4 ;;
esac
d_srand48_r=undef
srand48_r_proto=0
;;
esac
;;
*) srand48_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_srand48\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_getnbyad.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getbyname: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getbyname:

?S: This variable conditionally defines the HAS\_GETNETBYNAME symbol, which

?S: indicates to the C program that the getnetbyname() routine is available

?S: to look up networks by their names.

?S:.

?C:HAS\_GETNETBYNAME:

?C: This symbol, if defined, indicates that the getnetbyname() routine is

?C: available to look up networks by their names.

?C:.

?H:#\$d\_getbyname HAS\_GETNETBYNAME /\*\*/

?H:.

?LINT:set d\_getbyname

: see if getnetbyname exists

set getnetbyname d\_getbyname

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/d\_getbynm.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:00:43 ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
case "$realsilent" in
true) ;;
*) exec 1>&4;;
esac
case "$config_sh" in
") config_sh='config.sh';;
esac
echo " "
echo "Fetching answers from $config_sh..."
cd ..
. $config_sh
?X: extract has to be run from the top directory, not within UU.
. UU/optdef.sh
echo " "
?X: extract has to be run from the top directory, not within UU.
```

```
. UU/extract
rm -rf UU
echo "Extraction done."
exit 0
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/Extractall.U
```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_memmem: Hasproto Inlibc Setvar d\_gnulibc

?MAKE: -pick add \$@ %<

?S:d\_memmem:

?S: This variable conditionally defines the HAS\_MEMMEM symbol, which

?S: indicates to the C program that the memmem() routine is available

?S: to return a pointer to the start of the first occurrence of a

?S: substring in a memory area (or NULL if not found).

?S:.

?C:HAS\_MEMMEM:

?C: This symbol, if defined, indicates that the memmem routine is

?C: available to return a pointer to the start of the first occurrence

?C: of a substring in a memory area (or NULL if not found).

?C: In glibc, memmem is a GNU extension. The function is visible in

?C: libc, but the prototype is only visible if \_GNU\_SOURCE is #defined.

?C: Thus we only define this if both the prototype and symbol are found.

?C:.

?H:#\$d\_memmem

```
HAS_MEMMEM /**/
```

?H:.

?T:d\_memmem\_proto xx1 xx2 xx3 xx4

?LINT:set d\_memmem

: see if memmem exists

: We need both a prototype in string.h and the symbol in libc.

echo " "

```
d_memmem_proto="
```

```
xx1="#$d_gnulibc HAS_GNULIBC"
```

```
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
```

```
xx3='# define _GNU_SOURCE'
```

```
xx4='#endif'
```

```
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
```

```
eval $hasproto
```

```
case "$d_memmem_proto" in
```

```
define) # see if memmem exists
```

```
set memmem d_membed
eval $inlibc
;;
*) val=$undef
set d_membed
eval $setvar
;;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_membed.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: fpu.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?LINT: empty

?X:?MAKE:fpu: test cat cc Myread

?X:?MAKE: -pick add \$@ %<

?X:?S:fpu (fpunit):

?X:?S: Set to be the compile flag for the local floating point unit.

?X:?S:.

?X:?C:FPU (FPUNIT):

?X:?C: String containing the flags for the local floating point unit.

?X:?C:.

?X:?H:#define FPU "\$fpu" /\*\*/

?X:?H:.

?X: see what floating point compile flags should be used.

?X:fpu="

?X:if

\$test -r /dev/fpa; then

?X: \$cat>fpa.c << GOOP

?X: main(){return(1);}

?X:GOOP

?X: \$cc -ffpa -o fpa fpa.c

?X: fpa > fpa.out 2>&1

```

?X: if $test ! -s fpa.out; then
?X: dflt='y'
?X: $cat <<'EOM'
?X:
?X:You seem to have a sun fpa... I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X: rp="Should I compile for fpa?"
?X: . ./myread
?X: if $test $ans = "n"; then
?X: fpu="
?X: else
?X: fpu='-ffpa'
?X: fi
?X: else
?X: $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it. Maybe you should talk to
?X:your sysadmin about this. For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
?X:fi
?X:if $test "$fpu" = ""; then
?X: if $test -r /usr/etc/mc68881version; then
?X: dflt='y'
?X: $cat <<'EOM'
?X:
?X:There also seems to be the pieces for a 68881. If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X: rp="Should
I compile for a 68881?"
?X: . ./myread
?X: if $test $ans = "y"; then
?X: fpu='-f68881'
?X: fi
?X: fi
?X:fi
?X:

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/nullified/fpu.U

```

No license file was found, but licenses were detected in source scan.



```

?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:47 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_utime: Inhdr
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME /**/
?H:.
?LINT:set i_utime
:
  see if this is an utime system
  set utime.h i_utime
  eval $inhdr

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_utime.U

```

No license file was found, but licenses were detected in source scan.

#### Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty  
 Copyright (c) 1999-2011, H.Merijn Brand  
 All rights reserved.

These units are the ones I used to build Configure and config\_h.SH in the Perl5 distribution.

The Configure script and config\_h.SH file in the Perl distribution are generated by a program called metaconfig. To run metaconfig, you will

need the full dist 3.0 distribution, maintained by Raphael Manfredi.  
As of this writing, the current version is dist3.0, patchlevel 70.  
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive Perl Archive Network) as  
<<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source directory. This will create a directory 'U' under the perl5 sources. That directory will contain the metaconfig units for perl5. This will also create two files in the perl5 source tree: MANIFEST.new and .package.
3. Apply any patches to perl in the perl\_patches/ directory. (This may well be empty.)
4. Obtain and install dist-3.0pl70.
4. Apply any patches to dist under the dist\_patches subdirectory.
5. From your main perl5 source directory, run packinit to regenerate the .package file. **IMPORTANT:** Change the name and address of the maintainer to your own name and address. I don't want bug reports intended for you coming to me.
6. From your main perl5 source directory, run  
  
metalint (or mlint)  
  
and repair every failure it reports.
7. From your main perl5 source directory, run  
  
metaconfig -m (or mconfig -m)
8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70 location. (See comments at the top.)
9. Run the Porting/mksample script to update the contents of the Porting/ subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample; see Porting/pumpkin.pod instead for current documentation on its use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. The Configure in 5.005 is a hand-patched version of that supplied with perl5.004\_74 or so. Most of the patches had to do with supporting MPE/iX and EBCDIC systems. I have re-integrated most of the changes back into metaconfig, but I don't really understand why MPE/iX needed some of the patches, so I may have missed something important. I did try to flag questionable changes in the individual units.

The Configure as generated in the 5.9.x branch leading towards 5.10, is also used exactly as is without changes in the 5.8.x and 5.6.x branches, so do not remove support for features that are available in those branches, but are removed from devel (e.g. perl5005threads).

2. Future support of better random number generators should probably start with the randfunc.U unit included here. It's currently broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following directories:

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. I have submitted these for inclusion into the regular dist distribution. (The ccflags.U unit is actually perl-specific since it mentions -DDEBUGGING and -DPOSIX\_SOURCE, but that's the only place it is perl-specific.)

dist\_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl\_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/

This is the very, very beginning of cross-compiler support. It doesn't work yet, and many standard units will need modification.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.) I have submitted these for inclusion into the regular dist distribution.

threads/

These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution

under the terms of either

- a) the "Artistic License" which comes with Perl, or
- b) the "Artistic License" which comes with dist, or
- c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which

one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License. Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided that you explicitly state where you got them from, in the source code (and, left to your courtesy, in the documentation), duplicating all the associated copyright notices and disclaimers. Besides your changes, if any, must be clearly marked as such. Parts reused that way will no longer fall under this license if, and only if, the name of your program(s) have no immediate connection with the name of the Package itself or its associated programs. You may then apply whatever restrictions you wish on the reused parts or choose to place them in the Public Domain--this will apply only within the context of your package.

In accordance with this clause, the versions of these units contained here are made available under the same terms as the rest of the units.

If you have any questions about the use of these units or about the differences between these units and the standard versions, please feel free to ask.

Andy Dougherty [doughera@lafayette.edu](mailto:doughera@lafayette.edu)  
Dept. of Physics  
Lafayette College  
Easton, PA 18042-1782

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/README.dist

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2008 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ctime64 d\_localtime64 d\_gmtime64 d\_mktime64 d\_difftime64 d\_asctime64: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ctime64:

?S: This variable conditionally defines the HAS\_CTIME64 symbol, which

?S: indicates to the C program that the ctime64 () routine is available.

?S:.

?S:d\_localtime64:

?S: This variable conditionally defines the HAS\_LOCALTIME64 symbol, which

?S: indicates to the C program that the localtime64 () routine is available.

?S:.

?S:d\_gmtime64:

?S: This variable conditionally defines the HAS\_GMTIME64 symbol, which

?S: indicates to the C program that the gmtime64 () routine is available.

?S:.

?S:d\_mktime64:

?S: This variable conditionally defines the HAS\_MKTIME64 symbol, which

?S: indicates to the

C program that the mktime64 () routine is available.

?S:.

?S:d\_difftime64:

?S: This variable conditionally defines the HAS\_DIFFTIME64 symbol, which

?S: indicates to the C program that the difftime64 () routine is available.

?S:.

?S:d\_asctime64:

?S: This variable conditionally defines the HAS\_ASCTIME64 symbol, which

?S: indicates to the C program that the asctime64 () routine is available.

?S:.

?C:HAS\_CTIME64:

?C: This symbol, if defined, indicates that the ctime64 () routine is

?C: available to do the 64bit variant of ctime ()

?C:.

?C:HAS\_LOCALTIME64:

?C: This symbol, if defined, indicates that the localtime64 () routine is

?C: available to do the 64bit variant of localtime ()

?C:.

?C:HAS\_GMTIME64:

?C: This symbol, if defined, indicates that the gmtime64 () routine is

?C: available to do the 64bit variant of gmtime ()

?C:  
?C:HAS\_MKTIME64:  
?C: This symbol, if defined, indicates that the mktime64 () routine is  
?C: available to do the 64bit variant of mktime ()  
?C:  
?C:HAS\_DIFFTIME64:  
?C: This  
symbol, if defined, indicates that the difftime64 () routine is  
?C: available to do the 64bit variant of difftime ()  
?C:  
?C:HAS\_ASCTIME64:  
?C: This symbol, if defined, indicates that the asctime64 () routine is  
?C: available to do the 64bit variant of asctime ()  
?C:  
?H:#\$d\_ctime64 HAS\_CTIME64 /\*\*/  
?H:#\$d\_localtime64 HAS\_LOCALTIME64 /\*\*/  
?H:#\$d\_gmtime64 HAS\_GMTIME64 /\*\*/  
?H:#\$d\_mktime64 HAS\_MKTIME64 /\*\*/  
?H:#\$d\_difftime64 HAS\_DIFFTIME64 /\*\*/  
?H:#\$d\_asctime64 HAS\_ASCTIME64 /\*\*/  
?H:  
?LINT:set d\_ctime64 d\_localtime64 d\_gmtime64 d\_mktime64 d\_difftime64 d\_asctime64  
: see if 64bit time functions exists

set ctime64 d\_ctime64  
eval \$inlibc

set localtime64 d\_localtime64  
eval \$inlibc

set gmtime64 d\_gmtime64  
eval \$inlibc

set mktime64 d\_mktime64  
eval \$inlibc

set difftime64 d\_difftime64  
eval \$inlibc

set asctime64 d\_asctime64  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_timefuncs64.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:  
?RCS: Copyright (c) 1996, Andy Dougherty  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: i\_sysstat.U,v \$  
?RCS: Revision 3.0.1.1 1997/02/28 15:48:30 ram  
?RCS: patch61: created  
?RCS:  
?MAKE:i\_sysstat: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_sysstat:  
?S: This variable conditionally defines the I\_SYS\_STAT symbol,  
?S: and indicates whether a C program should include <sys/stat.h>.  
?S:.  
?C:I\_SYS\_STAT (I\_SYSSTAT):  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <sys/stat.h>.  
?C:.  
?H:#\$i\_sysstat I\_SYS\_STAT /\*\*/  
?H:.  
?LINT:set  
i\_sysstat  
: see if sys/stat.h is available  
set sys/stat.h i\_sysstat  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_sysstat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_pread.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_pread.U,v \$



```

?RCS:
?MAKE:d_pread: Inlibc
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
  pread d_pread
eval $inlibc

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_pread.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:54:42 ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 16:21:02 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1 1994/05/13 15:26:05 ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0
  1993/08/18 12:08:49 ram
?RCS: Baseline for dist 3.0 netwide release.

```

```

?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
  Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
  Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
  echo "<stdarg.h> found." >&4
  valstd="$define"
else
  echo "<stdarg.h> NOT found." >&4
  valstd="$undef"
fi

```

```
: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
  echo "<varargs.h> found." >&4
else
  echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi
```

?X:

?X: if you have stdarg.h, you need to support prototypes to actually use it;

?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some

?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.

?X:

: set up the varargs testing programs

```
$cat > varargs.c <<EOP
```

```
#ifdef I_STDARG
```

```
#include <stdarg.h>
```

```
#endif
```

```
#ifdef I_VARARGS
```

```
#include <varargs.h>
```

```
#endif
```

```
#ifdef
```

```
  I_STDARG
```

```
  int f(char *p, ...)
```

```
  #else
```

```
  int f(va_alist)
```

```
  va_dcl
```

```
  #endif
```

```
  {
```

```
    va_list ap;
```

```
    #ifndef I_STDARG
```

```
      char *p;
```

```
    #endif
```

```
    #ifdef I_STDARG
```

```
      va_start(ap,p);
```

```
    #else
```

```
      va_start(ap);
```

```
      p = va_arg(ap, char *);
```

```
    #endif
```

```
      va_end(ap);
```

```
      return 0;
```

```
  }
```

```
EOP
```

```
$cat > varargs <<EOP
```

```
$startsh
```

```
if $cc -c $ccflags -D\${1} varargs.c >/dev/null 2>&1; then
```

```

echo "true"
else
echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr="
val="
case "$valstd" in
"$define")
if `./varargs I_STDARG`; then
val='stdarg.h'
elif `./varargs I_VARARGS`; then
val='varargs.h'
fi
;;
*)
if `./varargs I_VARARGS`; then
val='varargs.h'
fi
;;
esac
case "$val" in
")
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo " Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
case "$knowitall" in
")
echo " I'm giving up; maybe you can try again with a different compiler?" >&4
exit 1
;;
esac
echo "I could not find the definition for va_dcl...
You have problems..." >&4
val="$undef"; set i_stdarg; eval $setvar
val="$undef"; set i_varargs; eval $setvar
;;
*)
set i_varhdr
eval $setvar
case "$i_varhdr" in
stdarg.h)
val="$define"; set i_stdarg; eval $setvar

```

```
val="$undef"; set i_varargs; eval $setvar
;;
varargs.h)
val="$undef"; set i_stdarg; eval $setvar
val="$define"; set i_varargs; eval $setvar
;;
esac
echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/i_varhdr.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 14:58:36 ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../config || mkdir ../config
cat >../config/README <<EOF
This directory created by Configure to save
information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/Configdir.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM /**/
?H:.
?LINT:set d_getspnam
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_getspnam.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
```

?S: routine is available.

?S:.

?S:getgrnam\_r\_proto:

?S: This variable encodes the prototype of getgrnam\_r.

?S: It is zero if d\_getgrnam\_r is undef, and one of the

?S: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getgrnam\_r

?S: is defined.

?S:.

?C:HAS\_GETGRNAM\_R:

?C: This symbol, if defined, indicates that the getgrnam\_r routine

?C: is available to

getgrnam re-entrantly.

?C:.

?C:GETGRNAM\_R\_PROTO:

?C: This symbol encodes the prototype of getgrnam\_r.

?C: It is zero if d\_getgrnam\_r is undef, and one of the

?C: REENTRANT\_PROTO\_T\_ABC macros of reentr.h if d\_getgrnam\_r

?C: is defined.

?C:.

?H:#\$d\_getgrnam\_r HAS\_GETGRNAM\_R /\*\*/

?H:#define GETGRNAM\_R\_PROTO \$getgrnam\_r\_proto /\*\*/

?H:.

?T:try hdrs d\_getgrnam\_r\_proto

: see if getgrnam\_r exists

set getgrnam\_r d\_getgrnam\_r

eval \$inlibc

case "\$d\_getgrnam\_r" in

"\$define")

hdrs="\$i\_systypes sys/types.h define stdio.h \$i\_grp grp.h"

case "\$d\_getgrnam\_r\_proto:\$usetthreads" in

":define") d\_getgrnam\_r\_proto=define

set d\_getgrnam\_r\_proto getgrnam\_r \$hdrs

eval \$hasproto ;;

\*) ;;

esac

case "\$d\_getgrnam\_r\_proto" in

define)

case "\$getgrnam\_r\_proto" in

"|0) try='int getgrnam\_r(const char\*, struct group\*, char\*, size\_t, struct group\*\*);'

./protochk "\$extern\_C \$try" \$hdrs && getgrnam\_r\_proto=I\_CSBWR ;;

esac

case "\$getgrnam\_r\_proto" in

"|0) try='int getgrnam\_r(const char\*, struct group\*, char\*,

int, struct group\*\*);'

./protochk "\$extern\_C \$try" \$hdrs && getgrnam\_r\_proto=I\_CSBIR ;;

esac

case "\$getgrnam\_r\_proto" in

"|0) try='struct group\* getgrnam\_r(const char\*, char\*, int);'

```

./prochck "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
esac
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
./prochck "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
esac
case "$getgrnam_r_proto" in
"|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
./prochck "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
esac
case "$getgrnam_r_proto" in
"|0) d_getgrnam_r=undef
getgrnam_r_proto=0
echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
*) case "$getgrnam_r_proto" in
REENTRANT_PROTO*) ;;
*) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$susetheads" in
define) echo "getgrnam_r has no prototype, not using it."
>&4 ;;
esac
d_getgrnam_r=undef
getgrnam_r_proto=0
;;
esac
;;
*) getgrnam_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_getgrnam\_r.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lround:

?S: This variable conditionally defines the HAS\_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.



?S:  
?C:HAS\_LROUND:  
?C: This symbol, if defined, indicates that the lround routine is  
?C: available to return the nearest integral value.

?C:  
?H:#\$d\_lround HAS\_LROUND /\*\*/  
?H.:

?LINT:set d\_lround  
: see if lround exists  
set lround d\_lround  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_lround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.

?RCS:  
?RCS: \$Log: bitpbyte.U,v \$  
?RCS: Revision 3.0.1.1 1994/10/29 16:02:54 ram  
?RCS: patch36: added ?F: line for metalint file checking

?RCS:  
?RCS: Revision 3.0 1993/08/18 12:05:27 ram  
?RCS: Baseline for dist 3.0 netwide release.

?RCS:  
?MAKE:bitpbyte: cat rm Myread +cc +ccflags

?MAKE: -pick add \$@ %<

?S:bitpbyte:  
?S: This variable contains the value of the BITS\_PER\_BYTE symbol, which  
?S: indicates to the C program how many bits there are in a byte.

?S:  
?C:BITS\_PER\_BYTE:  
?C: This symbol contains the number  
of bits in a byte, so that the C  
?C: preprocessor can make decisions based on it.

?C:  
?H:#define BITS\_PER\_BYTE \$bitpbyte /\*\*/

?H.:

?F:!try

```

: check for length of byte
echo " "
case "$bitpbyte" in
")
echo "Checking to see how many bits there are in a byte..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#else
#define CHAR_BIT 8
#endif
#ifdef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifdef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
printf("%d\n", BITSPERBYTE);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
dflt=`./try`
else
dflt='8'
echo "(I can't seem to compile the test program. Guessing...)"
fi
;;
*)
dflt="$bitpbyte"
;;
esac
rp="What is the length of a byte (in bits)?"
./myread
bitpbyte="$ans"
$rm -f try.c try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/bitpbyte.U

```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:15 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
?C: declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_arpainet.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
```

```

usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
?C: is available to
setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
case "$d_setgrent_r_proto:$usethreads" in
":define") d_setgrent_r_proto=define
set d_setgrent_r_proto setgrent_r $hdrs
eval $hasproto ;;
*) ;;
esac
case "$d_setgrent_r_proto" in
define)
case "$setgrent_r_proto" in
"|0) try='int setgrent_r(FILE**);'
./protechk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
esac
case "$setgrent_r_proto" in
"|0) try='void setgrent_r(FILE**);'

```

```

./prochck "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
esac
case "$setgrent_r_proto"
in
"|0) d_setgrent_r=undef
setgrent_r_proto=0
echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
* ) case "$setgrent_r_proto" in
REENTRANT_PROTO*) ;;
*) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "setgrent_r has no prototype, not using it." >&4 ;;
esac
d_setgrent_r=undef
setgrent_r_proto=0
;;
esac
;;
*) setgrent_r_proto=0
;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_setgrent_r.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: This file is included with or a derivative work of a file included

?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.

?RCS: In accordance with clause 7 of dist's modified Artistic License:

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?RCS: \$Log: startperl.U,v \$

?RCS: Perl5 version -- I always have d\_portable=define.

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:50 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

```

?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S: eval 'exec perl -S $0 ${1+"$@"}'
?S: if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
?C:.
?H:#define STARTPERL "$startperl" /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
: the Configure -Dinstallprefix setting, which in turn means that under
: relocatable @INC, initialinstalllocation is what binexp started as.
case
"$startperl" in
")
case "$sharpbang" in
*!)
$cat <<EOH

```

I can use the #! construct to start perl on your system. This will make startup of perl scripts faster, but may cause problems if you want to share those scripts and perl is not in a standard place (\$initialinstalllocation/perl) on all your platforms. The alternative is to force a shell by starting the script with a single ':' character.

```

EOH
case "$versiononly" in
"$define") dflt="$initialinstalllocation/perl$version";;
*) dflt="$initialinstalllocation/perl";;
esac
rp='What shall I put after the #! to start up perl ("none" to not use #!)?'

```

```
./myread
case "$ans" in
none) startperl=": # use perl";;
*) startperl="#!/$ans"
if $test 30 -lt `echo "$ans" | wc -c`; then
$cat >&4 <<EOM
```

WARNING: Some systems limit the #! command to 32 characters.

If you experience difficulty running Perl scripts with #!, try installing Perl in a directory with a shorter pathname.

EOM

```
fi ;;
esac
;;
*)
startperl=": # use perl"
;;
esac
;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/startperl.U
```

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_j0 d\_j0l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_j0:

?S: This variable conditionally defines the HAS\_J0 symbol, which

?S: indicates to the C program that the j0() routine is available.

?S:.

?S:d\_j0l:

?S: This variable conditionally defines the HAS\_J0L symbol, which

?S: indicates to the C program that the j0l() routine is available.

?S:.

?C:HAS\_J0:

?C: This symbol, if defined, indicates to the C program that the

?C: j0() function is available for Bessel functions of the first

?C: kind of the order zero, for doubles.

?C:.

?C:HAS\_J0L:

?C: This symbol, if defined, indicates to the C program that the

?C: j0l() function is available for Bessel functions of the first

?C: kind of the order zero, for long doubles.

?C:.

?H:#\$d\_j0 HAS\_J0 /\*\*/

?H:#\$d\_j0l HAS\_J0L /\*\*/

?H:.

?LINT:set

d\_j0

?LINT:set d\_j0l

: see if j0 exists

set j0 d\_j0

eval \$inlibc

: see if j0l exists

set j0l d\_j0l

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_j0.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_PRIfldbl sPRIfldbl d\_PRIgldbl d\_PRIFUdbl sPRIGUdbl d\_PRIEUdbl \

sPRIGldbl d\_PRIeldbl sPRIeldbl sPRIFUdbl d\_PRIGUdbl sPRIEUdbl \

d\_SCNfldbl d\_double\_style\_vax d\_double\_style\_ieee \

d\_double\_style\_ibm d\_double\_style\_cray d\_double\_has\_subnormals \

d\_double\_has\_inf d\_double\_has\_nan d\_double\_has\_negative\_zero \

sSCNfldbl doublekind: \

d\_longdbl longdblsize doublesize uselongdouble test echo cat rm\_try \

Setvar Compile run i\_stdlib osname gccversion ccflags

?MAKE: -pick add \$@ %<

?S:doublekind:

?S: This variable, if defined, encodes the type of a double:

?S: 1 = IEEE 754 32-bit little endian,

?S: 2 = IEEE 754 32-bit big endian,

?S: 3 = IEEE 754 64-bit little endian,

?S: 4 = IEEE

754 64-bit big endian,

?S: 5 = IEEE 754 128-bit little endian,

?S: 6 = IEEE 754 128-bit big endian,

?S: 7 = IEEE 754 64-bit mixed endian le-be,



?S: 8 = IEEE 754 64-bit mixed endian be-le,  
?S: 9 = VAX 32bit little endian F float format  
?S: 10 = VAX 64bit little endian D float format  
?S: 11 = VAX 64bit little endian G float format  
?S: 12 = IBM 32bit format  
?S: 13 = IBM 64bit format  
?S: 14 = Cray 64bit format  
?S: -1 = unknown format.  
?S:.  
?S:d\_PRIldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates that stdio has a symbol to print long doubles.  
?S:.  
?S:d\_PRIgldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates that stdio has a symbol to print long doubles.  
?S:.  
?S:d\_PRIldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates that stdio has a symbol to print long doubles.  
?S:.  
?S:d\_PRIFUldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates  
that stdio has a symbol to print long doubles.  
?S: The 'U' in the name is to separate this from d\_PRIldbl so that even  
?S: case-blind systems can see the difference.  
?S:.  
?S:d\_PRIGUldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates that stdio has a symbol to print long doubles.  
?S: The 'U' in the name is to separate this from d\_PRIgldbl so that even  
?S: case-blind systems can see the difference.  
?S:.  
?S:d\_PRIEUldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates that stdio has a symbol to print long doubles.  
?S: The 'U' in the name is to separate this from d\_PRIldbl so that even  
?S: case-blind systems can see the difference.  
?S:.  
?S:d\_SCNldbl:  
?S: This variable conditionally defines the PERL\_PRIldbl symbol, which  
?S: indicates that stdio has a symbol to scan long doubles.  
?S:.  
?S:sPRIldbl:  
?S: This variable, if defined, contains the string used by stdio to  
?S: format long doubles (format 'F') for

output.

?S:.

?S:sPRIGldbl:

?S: This variable, if defined, contains the string used by stdio to

?S: format long doubles (format 'g') for output.

?S:.

?S:sPRIeldbl:

?S: This variable, if defined, contains the string used by stdio to

?S: format long doubles (format 'e') for output.

?S:.

?S:sPRIFUdbl:

?S: This variable, if defined, contains the string used by stdio to

?S: format long doubles (format 'F') for output.

?S: The 'U' in the name is to separate this from sPRIfldbl so that even

?S: case-blind systems can see the difference.

?S:.

?S:sPRIGUdbl:

?S: This variable, if defined, contains the string used by stdio to

?S: format long doubles (format 'G') for output.

?S: The 'U' in the name is to separate this from sPRIGldbl so that even

?S: case-blind systems can see the difference.

?S:.

?S:sPRIEUdbl:

?S: This variable, if defined, contains the string used by stdio to

?S: format long doubles (format 'E') for output.

?S: The 'U' in the name is to separate this from sPRIeldbl so that even

?S: case-blind

systems can see the difference.

?S:.

?S:sSCNfldbl:

?S: This variable, if defined, contains the string used by stdio to

?S: format long doubles (format 'f') for input.

?S:.

?S:d\_double\_has\_inf:

?S: This variable conditionally defines the symbol DOUBLE\_HAS\_INF

?S: which indicates that the double type has an infinity.

?S:.

?S:d\_double\_has\_nan:

?S: This variable conditionally defines the symbol DOUBLE\_HAS\_NAN

?S: which indicates that the double type has a not-a-number.

?S:.

?S:d\_double\_has\_negative\_zero:

?S: This variable conditionally defines the symbol DOUBLE\_HAS\_NEGATIVE\_ZERO

?S: which indicates that the double type has a negative zero.

?S:.

?S:d\_double\_has\_subnormals:

?S: This variable conditionally defines the symbol DOUBLE\_HAS\_SUBNORMALS

?S: which indicates that the double type has subnormals (denormals).

?S:.

?S:d\_double\_style\_cray:

?S: This variable conditionally defines the symbol DOUBLE\_STYLE\_CRAY

?S: which indicates that the double is the 64-bit CRAY mainframe format.

?S:.

?S:d\_double\_style\_ibm:

?S: This variable conditionally defines the symbol DOUBLE\_STYLE\_IBM,

?S: which indicates that the double is the 64-bit IBM mainframe format.

?S:.

?S:d\_double\_style\_ieee:

?S: This variable conditionally defines the symbol DOUBLE\_STYLE\_IEEE,

?S: which indicates that the double is the 64-bit IEEE 754.

?S:.

?S:d\_double\_style\_vax:

?S: This variable conditionally defines the symbol DOUBLE\_STYLE\_VAX,

?S: which indicates that the double is the 64-bit VAX format D or G.

?S:.

?C:PERL\_PRIldbl:

?C: This symbol, if defined, contains the string used by stdio to

?C: format long doubles (format 'f') for output.

?C:.

?C:PERL\_PRIgldbl:

?C: This symbol, if defined, contains the string used by stdio to

?C: format long doubles (format 'g') for output.

?C:.

?C:PERL\_PRIeldbl:

?C: This symbol, if defined, contains the string used by stdio to

?C: format long doubles (format 'e') for output.

?C:.

?C:PERL\_PRIFldbl:

?C: This symbol, if defined, contains the string used by stdio

to

?C: format long doubles (format 'f') for output.

?C:.

?C:PERL\_PRIGldbl:

?C: This symbol, if defined, contains the string used by stdio to

?C: format long doubles (format 'g') for output.

?C:.

?C:PERL\_PRIeldbl:

?C: This symbol, if defined, contains the string used by stdio to

?C: format long doubles (format 'e') for output.

?C:.

?C:PERL\_SCNfldbl:

?C: This symbol, if defined, contains the string used by stdio to

?C: format long doubles (format 'f') for input.

?C:.

?C:DOUBLEKIND:

?C: DOUBLEKIND will be one of  
?C: DOUBLE\_IS\_IEEE\_754\_32\_BIT\_LITTLE\_ENDIAN  
?C: DOUBLE\_IS\_IEEE\_754\_32\_BIT\_BIG\_ENDIAN  
?C: DOUBLE\_IS\_IEEE\_754\_64\_BIT\_LITTLE\_ENDIAN  
?C: DOUBLE\_IS\_IEEE\_754\_64\_BIT\_BIG\_ENDIAN  
?C: DOUBLE\_IS\_IEEE\_754\_128\_BIT\_LITTLE\_ENDIAN  
?C: DOUBLE\_IS\_IEEE\_754\_128\_BIT\_BIG\_ENDIAN  
?C: DOUBLE\_IS\_IEEE\_754\_64\_BIT\_MIXED\_ENDIAN\_LE\_BE  
?C: DOUBLE\_IS\_IEEE\_754\_64\_BIT\_MIXED\_ENDIAN\_BE\_LE  
?C: DOUBLE\_IS\_VAX\_F\_FLOAT  
?C: DOUBLE\_IS\_VAX\_D\_FLOAT  
?C: DOUBLE\_IS\_VAX\_G\_FLOAT  
?C: DOUBLE\_IS\_IBM\_SINGLE\_32\_BIT  
?C: DOUBLE\_IS\_IBM\_DOUBLE\_64\_BIT  
?C: DOUBLE\_IS\_CRAY\_SINGLE\_64\_BIT  
?C: DOUBLE\_IS\_UNKNOWN\_FORMAT  
?C:.  
?C:DOUBLE\_HAS\_INF:  
?C: This  
symbol, if defined, indicates that the double has  
?C: the infinity.  
?C:.  
?C:DOUBLE\_HAS\_NAN:  
?C: This symbol, if defined, indicates that the double has  
?C: the not-a-number.  
?C:.  
?C:DOUBLE\_HAS\_NEGATIVE\_ZERO:  
?C: This symbol, if defined, indicates that the double has  
?C: the negative\_zero.  
?C:.  
?C:DOUBLE\_HAS\_SUBNORMALS:  
?C: This symbol, if defined, indicates that the double has  
?C: the subnormals (denormals).  
?C:.  
?C:DOUBLE\_STYLE\_CRAY:  
?C: This symbol, if defined, indicates that the double is  
?C: the 64-bit CRAY mainframe format.  
?C:.  
?C:DOUBLE\_STYLE\_IBM:  
?C: This symbol, if defined, indicates that the double is  
?C: the 64-bit IBM mainframe format.  
?C:.  
?C:DOUBLE\_STYLE\_IEEE:  
?C: This symbol, if defined, indicates that the double is  
?C: the 64-bit IEEE 754.  
?C:.  
?C:DOUBLE\_STYLE\_VAX:  
?C: This symbol, if defined, indicates that the double is

```

?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT -1
?H:#$d_PRIfldbl PERL_PRIfldbl $$PRIfldbl /**/
?H:#$d_PRIgldbl PERL_PRIgldbl $$PRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $$PRIeldbl /**/
?H:#$d_PRIFUdbl PERL_PRIFUdbl $$PRIFUdbl /**/
?H:#$d_PRIGUdbl PERL_PRIGUdbl $$PRIGUdbl /**/
?H:#$d_PRIEUdbl PERL_PRIEUdbl $$PRIEUdbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $$SCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY

```

```

?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
    unsigned const char* b = (unsigned const char*)&d;
    #if DOUBLESIZE == 4
    if (b[0] == 0xCD && b[3] == 0xBD) {
        /* IEEE 754 32-bit little-endian */
        printf("1\n");
        exit(0);
    }
    if (b[0] == 0xBD && b[3] == 0xCD) {
        /* IEEE 754 32-bit big-endian */
        printf("2\n");
        exit(0);
    }
    if (b[0] == 0xCC && b[3] == 0xCC) {
        /* VAX format F, 32-bit
        PDP-style mixed endian. */
        printf("9\n");
        exit(0);
    }
    if (b[0] == 0xC0 && b[3] == 0x9A) {
        /* IBM single 32-bit */
        printf("12\n");
        exit(0);
    }
    #endif
    #if DOUBLESIZE == 8
    if (b[0] == 0x9A && b[7] == 0xBF) {
        /* IEEE 754 64-bit little-endian */
        printf("3\n");
        exit(0);
    }

```

```

}
if (b[0] == 0xBF && b[7] == 0x9A) {
    /* IEEE 754 64-bit big-endian */
    printf("4\n");
    exit(0);
}
if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
    /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
    * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
    * 99 99 b9 bf 9a 99 99 99 */
    printf("7\n");
    exit(0);
}
if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
    /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
    * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
    * 99 99 99 9a bf b9 99 99 */
    printf("8\n");
    exit(0);
}
if (b[0] == 0xCC && b[7] == 0xCC) {
    /* VAX
    format D, 64-bit PDP-style mixed endian. */
    printf("10\n");
    exit(0);
}
if (b[0] == 0xD9 && b[7] == 0x99) {
    /* VAX format G, 64-bit PDP-style mixed endian. */
    printf("11\n");
    exit(0);
}
if (b[0] == 0xC0 && b[7] == 0x9A) {
    /* IBM double 64-bit */
    printf("13\n");
    exit(0);
}
if (b[0] == 0xBF && b[7] == 0xCD) {
    /* CRAY single 64-bit */
    printf("14\n");
    exit(0);
}
#endif
#if DOUBLESIZE == 16
if (b[0] == 0x9A && b[15] == 0xBF) {
    /* IEEE 754 128-bit little-endian */
    printf("5\n");
    exit(0);
}

```

```

if (b[0] == 0xBF && b[15] == 0x9A) {
    /* IEEE 754 128-bit big-endian */
    printf("6\n");
    exit(0);
}
#endif
/* Then there are old mainframe/miniframe formats like IBM and CRAY.
 * Whether those environments can still build Perl is debatable. */
printf("-1\n"); /* unknown */
exit(0);
}
EOP
set try
if eval $compile; then
    doublekind=`$run ./try`
else
    doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
    754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double. You Cyber, or something?" >&4 ;;
esac
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
"$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in

```



```

$define)
  d_double_has_inf=$define
  d_double_has_nan=$define
  d_double_has_negative_zero=$define
  d_double_has_subnormals=$define
  ;;
*)
  d_double_has_inf=$undef
  d_double_has_nan=$undef
  d_double_has_negative_zero=$undef
  d_double_has_subnormals=$undef
  ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4

if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
  $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
  double d = 123.456;
  printf("%.3f\n", d);
}
EOCP
set try
if eval $compile; then
  yyy=`$run
./try`
  case "$yyy" in
    123.456)
      sPRIfldbl="f"; sPRIgldbl="g"; sPRIeldbl="e";
      sPRIFUldbl="F"; sPRIGUldbl="G"; sPRIEUldbl="E";
      echo "We will use %f."
      ;;
    esac
  fi
fi

if $test X"$sPRIfldbl" = X; then
  $cat >try.c <<'EOCP'
#include <sys/types.h>

```

```

#include <stdio.h>
int main() {
    long double d = 123.456;
    printf("%.3Lf\n", d);
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
        123.456)
            sPRIfldbl="Lf"; sPRIGldbl="Lg"; sPRIeldbl="Le";
            sPRIFUldbl="LF"; sPRIGUldbl="LG"; sPRIEUldbl="LE";
            echo "We will use %Lf."
            ;;
        esac
    fi
fi

```

```

if $test X"$sPRIfldbl" = X; then
    $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
    long double d = 123.456;
    printf("%.3llf\n", d);
}
EOCP
set try
if eval $compile; then
    yyy=`$run ./try`
    case "$yyy" in
        123.456)
            sPRIfldbl="llf"; sPRIGldbl="llg"; sPRIeldbl="lle";
            sPRIFUldbl="llF"; sPRIGUldbl="llG"; sPRIEUldbl="llE";
            echo "We
will use %llf."
            ;;
        esac
    fi
fi

```

```

if $test X"$sPRIfldbl" = X; then
    $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
    long double d = 123.456;

```

```

printf("%.3lf\n", d);
}
EOCP
set try
if eval $compile; then
yyy=`$run ./try`
case "$yyy" in
123.456)
sPRIfldbl="lf"; sPRIGldbl="lg"; sPRIeldbl="le";
sPRIFUldbl="lF"; sPRIGUldbl="lG"; sPRIEUldbl="lE";
echo "We will use %lf."
;;
esac
fi
fi

if $test X"$sPRIfldbl" = X; then
echo "Cannot figure out how to print long doubles." >&4
else
sSCNfldbl=$sPRIfldbl # expect consistency
fi

$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$sundef"; d_PRIGldbl="$sundef"; d_PRIeldbl="$sundef";
d_PRIFUldbl="$sundef"; d_PRIGUldbl="$sundef"; d_PRIEUldbl="$sundef";
d_SCNfldbl="$sundef";
;;
*) d_PRIfldbl="$sdefine"; d_PRIGldbl="$sdefine"; d_PRIeldbl="$sdefine";
d_PRIFUldbl="$sdefine"; d_PRIGUldbl="$sdefine"; d_PRIEUldbl="$sdefine";
d_SCNfldbl="$sdefine";
;;
esac

: Before committing on uselongdouble,
see whether that looks sane.
if $test "$uselongdouble" = "$sdefine"; then
message=""
echo " "
echo "Checking if your long double math functions work right..." >&4
$cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
printf("%"sPRIGldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L)))))+powl(2.0L, 3.0L));

```

```

}
EOF
  case "$osname:$gccversion" in
  aix:~) saveccflags="$ccflags"
ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
  esac
  set try
  if eval $compile_ok; then
    yyy=`$run ./try`
  fi
  case "$yyy" in
  3) echo "Your long double math functions are working correctly." >&4 ;;
  *) echo "Your long double math functions are broken, not using long doubles." >&4
    uselongdouble=$undef
    ;;
  esac
  $rm_try
  case "$osname:$gccversion" in
  aix:~) ccflags="$saveccflags" ;; # restore
  esac
fi

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/longdblfiio.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
```

```
?RCS: $Log: installprefix.U,v $
```

```
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?RCS:
```

```
?MAKE:installprefix installprefixexp: Getfile Loc \
```

```
Oldconfig afs cat package prefix
```

```
?MAKE: -pick add $@ %<
```

```
?S:installprefix:
```

?S: This variable holds the name of the directory below which  
 ?S: "make install" will install the package. For most users, this  
 ?S: is the same  
 as prefix. However, it is useful for  
 ?S: installing the software into a different (usually temporary)  
 ?S: location after which it can be bundled up and moved somehow  
 ?S: to the final location specified by prefix.  
 ?S:.  
 ?S:installprefixexp:  
 ?S: This variable holds the full absolute path of installprefix  
 ?S: with all ~-expansion done.  
 ?S:.  
 : determine installation prefix for where package is to be installed.  
 if \$afs; then  
 \$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which  
 files will reside from the directory in which they are installed (and from  
 which they are presumably copied to the former directory by occult means).

```
EOM
case "$installprefix" in
  ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#`";
  *) dflt="$installprefix";
  esac
else
$cat <<EOM
```

In some special cases, particularly when building \$package for distribution,  
 it is convenient to distinguish the directory in which files should be  
 installed from the directory (\$prefix) in which they will  
 eventually  
 reside. For most users, these two directories are the same.

```
EOM
case "$installprefix" in
  ") dflt=$prefix ;;
  *) dflt=$installprefix;;
  esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):  
 \* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/installdirs/installprefix.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_setpent.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_setpent: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setpent:

?S: This variable conditionally defines HAS\_SETPROTOENT if setprotoent() is

?S: available.

?S:.

?C:HAS\_SETPROTOENT:

?C: This symbol, if defined, indicates that the setprotoent() routine is

?C: available.

?C:.

?H:#\$d\_setpent HAS\_SETPROTOENT /\*\*/

?H:.

?LINT:set d\_setpent

: see if setprotoent

exists

set setprotoent d\_setpent

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/modified/d\_setpent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp \$

?RCS:

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?RCS:

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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: ccflags.U,v \$  
?RCS: Revision 3.0.1.9 1997/02/28 15:27:07 ram  
?RCS: patch61: removed support for NO\_PROTOTYPE detection on SCO  
?RCS: patch61: new locincpth variable  
?RCS: patch61: added info on the "additional ld flags" question  
?RCS:  
?RCS: Revision 3.0.1.8 1995/07/25 13:48:54 ram  
?RCS: patch56: re-arranged compile line to include ldflags before objects  
?RCS:  
?RCS: Revision 3.0.1.7 1995/05/12 12:08:33 ram  
?RCS: patch54: now checks for cc/ccflags/ldflags  
coherency  
?RCS:  
?RCS: Revision 3.0.1.6 1994/10/29 16:07:02 ram  
?RCS: patch36: gcc versioning no longer relies on the C compiler's name  
?RCS: patch36: simplified check for gcc version checking (ADO)  
?RCS:  
?RCS: Revision 3.0.1.5 1994/08/29 16:06:35 ram  
?RCS: patch32: propagate -posix flag from ccflags to ldflags  
?RCS:  
?RCS: Revision 3.0.1.4 1994/05/06 14:28:45 ram  
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)  
?RCS: patch23: cppflags now computed on an option-by-option basis  
?RCS: patch23: magically added cc flags now only done the first time  
?RCS:  
?RCS: Revision 3.0.1.3 1993/09/13 15:58:29 ram  
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)  
?RCS: patch10: removed all the "tans" variable usage (WAD)  
?RCS:  
?RCS: Revision 3.0.1.2 1993/08/27 14:39:38 ram  
?RCS: patch7: added support for OSF/1 machines  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:00:24 ram  
?RCS: patch6: added defaults for cppflags, ccflags and ldflags  
?RCS:  
?RCS:  
Revision 3.0 1993/08/18 12:05:31 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat osname \  
Myread Guess Options Oldconfig +gccversion mips\_type +usrinc \  
package contains rm +cc cppstdin cppminus cprun cpplast libpth \  
libs loclibpth hint usesocks sh run rm\_try sysroot  
?MAKE: -pick add \$@ %<  
?S:ccflags:  
?S: This variable contains any additional C compiler flags desired by

?S: the user. It is up to the Makefile to use this.

?S:.

?S:cppflags:

?S: This variable holds the flags that will be passed to the C pre-processor. It is up to the Makefile to use it.

?S:.

?S:optimize:

?S: This variable contains any optimizer/debugger flag that should be used.

?S: It is up to the Makefile to use it.

?S:.

?S:ldflags:

?S: This variable contains any additional C loader flags desired by the user. It is up to the Makefile to use this.

?S:.

?S:lkflags:

?S: This variable contains any additional C partial linker flags desired by the user. It is up to the Makefile to use this.

?S:.

?S:locincpth:

?S: This variable contains a list of additional directories to be searched by the compiler. The appropriate '-I' directives will be added to ccflags. This is intended to simplify setting local directories from the Configure command line.

?S: It's not much, but it parallels the loclibpth stuff in libpth.U.

?S:.

?T:inctest thisincl xxx inclwanted ftry previous thislibdir

?T:EBUGGING DEBUGGING

?T:check flag callback checkccflag

?F:!cpp.c !gcctest !try

?D:cppflags=""

?D:ccflags=""

?D:ldflags=""

?D:optimize=""

?LINT:extern \_sysroot

?INIT:: Possible local include directories to search.

?INIT:: Set locincpth to "" in a hint file to defeat local include searches.

?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"

?INIT:locincpth="\$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"

?INIT::

?INIT:: no include file wanted by default

?INIT:inclwanted=""

?INIT:

?INIT::

Enable -DEBUGGING and -DDEBUGGING from the command line

?INIT:EBUGGING=""

?INIT:DEBUGGING=""

?INIT:



```

: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean. AD 2/16/98
case "$optimize" in
'|$undef) dflt='none';;
") dflt='-O';;
*) dflt="$optimize";;
esac
$cat <<EOH

```

By default, \$package compiles with the -O flag to use the optimizer. Alternately, you might want to use the symbolic debugger, which uses the -g flag (on traditional Unix systems). Either flag can be specified here. To use neither flag, specify the word "none".

```

EOH
rp="What optimizer/debugger flag should be used?"
./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

```

```

: Check what DEBUGGING is required from the command line
: -DEBUGGING or -DDEBUGGING or
: -DEBUGGING=both = -g + -DDEBUGGING
: -DEBUGGING=-g or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
:
: -DEBUGGING=old or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

```

```

case "$DEBUGGING" in
-g|both|$define)
  case "$optimize" in
  *-g*) ;;
  *) optimize="$optimize -g" ;;
  esac ;;
none|$undef)
  case "$optimize" in
  *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
  esac ;;

```

```
esac
```

```
dflt="
```

```
case "$DEBUGGING" in
```

```
both|$define) dflt='-DDEBUGGING'
```

```
esac
```

: argument order is deliberate, as the flag will start with - which set could

: think is an option

```
checkccflag='check=$1; flag=$2; callback=$3;
```

```
echo " ";
```

```
echo "Checking if your compiler accepts $flag" 2>&1;
```

```
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
```

```
echo "int main(void) { return 0; }" > gcctest.c;
```

```
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
```

```
    echo "Yes, it does." 2>&1;
```

```
    if $test -s gcctest.out ; then
```

```
        echo "But your platform does not like it:";
```

```
        cat gcctest.out;
```

```
    else
```

```
case "$ccflags"
```

```
in
```

```
*$check*)
```

```
    echo "Leaving current flags $ccflags alone." 2>&1
```

```
    ;;
```

```
*) dflt="$dflt $flag";
```

```
    eval $callback
```

```
    ;;
```

```
esac
```

```
fi
```

```
else
```

```
    echo "Nope, it does not, but that is ok." 2>&1;
```

```
fi
```

```
,
```

: We will not override a previous value, but we might want to

: augment a hint file

```
case "$hint" in
```

```
default|recommended)
```

```
case "$gccversion" in
```

```
1.*) dflt="$dflt -fpcc-struct-return" ;;
```

```
esac
```

```
case "$optimize:$DEBUGGING" in
```

```
*-g*:old) dflt="$dflt -DDEBUGGING";;
```

```
esac
```

?X: check for POSIXized ISC

```
case "$gccversion" in
```

```
2.*) if $test -d /etc/conf/kconfig.d &&
```

```

$contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
then
# Interactive Systems (ISC) POSIX mode.
dflt="$dflt -posix"
fi
;;
esac
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
?X: --Andy Dougherty 27 Aug 1999
case "$gccversion" in
1.*)
;;
2.[0-8]*) ;;
?*) set strict-aliasing -fno-strict-aliasing
eval $checkccflag
;;
esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
# For gcc, adding -pipe speeds up compilations for some, but apparently
# some assemblers can't read from stdin. (It also slows down compilations
# in other cases, but those are apparently rarer these days.) AD 5/2004.
case "$gccversion" in
?*) set pipe -pipe
eval $checkccflag
;;
esac

?X: NWC 200712
# on x86_64 (at least) we require an extra library (libssp) in the
# link command line. This library is not named, so I infer that it is
# an implementation detail that may change. Hence the safest approach
# is to add the flag to the flags passed to the compiler at link time,
# as that way the compiler can do the right implementation dependant
# thing. (NWC)
case "$osname" in
amigaos)
;; # -fstack-protector builds but doesn't work
*) case "$gccversion" in
?*) set stack-protector-strong -fstack-protector-strong
eval $checkccflag
case "$dflt" in
*-fstack-protector-strong*) ;; # It got added.

```

```

*) # Try the plain/older -fstack-protector.
  set stack-protector -fstack-protector
  eval $checkccflag
  ;;
esac
;;
esac
;;
esac
;;
esac

```

?X: In USG mode, a MIPS system may need some BSD includes

```

case "$mips_type" in
*BSD*|*) inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
if $test -d $thisincl; then
if $test x$thisincl != x$usrinc; then
  case "$dflt" in
  *" -I$thisincl "*);;
  *) dflt="$dflt -I$thisincl ";;
  esac
fi
fi
done

```

?X: Include test function (header, symbol)

```

inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
xxx=true;
else
xxx=false;
fi;
if $xxx; then
  case "$dflt"
  in
  *$2*);;
  *) dflt="$dflt -D$2";;
  esac;
fi'

```

```

set signal.h LANGUAGE_C; eval $inctest

```

```

case "$usesocks" in
$define)

```

```

ccflags="$ccflags -DSOCKS"
;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
'| ') dflt=none;;
esac

$cat <<EOH

```

Your C compiler may want other flags. For this question you should include -I/whatever and -DWHATEVER flags and any other flags used by the C compiler, but you should NOT include libraries or ld flags like -lwhatever. If you want \$package to honor its debug switch, you should include -DDEBUGGING here. Your C compiler might also need additional flags, such as -D\_POSIX\_SOURCE.

To use no flags, specify the word "none".

```

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

```

: the following weeds options from ccflags that are of no interest to cpp

```

case "$cppflags" in
") cppflags="$ccflags"
;;
*) set X $ccflags; shift
case " $cppflags " in
*" $1 "*" ) ;; # Try to avoid doubling the cppflags.
*) cppflags="$cppflags $ccflags" ;;
esac
;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"

```

```

esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
echo " "
echo "Let me guess what the preprocessor flags are..." >&4
set X $cppflags
shift
cppflags="
$cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
previous="
for flag in $*
do
case "$flag" in
-*) ftry="$flag";;
*) ftry="$previous $flag";;
esac
if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
>cpp1.out 2>/dev/null && \
$cprun -DLFRULB=bar $cppflags $ftry $cpplast <cpp.c \
>cpp2.out
2>/dev/null && \
$contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
$contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
then
cppflags="$cppflags $ftry"
previous="
else
previous="$flag"
fi
done
set X $cppflags
shift
cppflags=${1+"$@"}
case "$cppflags" in

```

```

*~*) echo "They appear to be: $cppflags";;
esac
$rm -f cpp.c cpp?.out
;;
esac

: flags used in final linking phase
case "$ldflags" in
") if ./venix; then
  dflt='-i -z'
else
  dflt=""
fi
case "$ccflags" in
*-posix*) dflt="$dflt -posix" ;;
esac
;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
*-fstack-protector-strong*)
  case "$dflt" in
*-fstack-protector-strong*) ;; # Don't add it again
*) dflt="$dflt -fstack-protector-strong" ;;
esac
;;
*-fstack-protector*)
  case "$dflt" in
*-fstack-protector*) ;; # Don't add it again
*) dflt="$dflt -fstack-protector" ;;
esac
;;
esac

: Try to guess additional flags to pick up local libraries.
for thislibdir
in $libpth; do
  case " $loclibpth " in
*" $thislibdir ")
    case "$dflt " in
*" -L$thislibdir ") ;;
*) dflt="$dflt -L$thislibdir" ;;
esac
;;
esac
done

```

```
case "$dflt" in
") dflt='none' ;;
esac
```

```
$cat <<EOH
```

Your C linker may need flags. For this question you should include -L/whatever and any other flags used by the C linker, but you should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker does not normally search all of the directories you specified above, namely

```
$libpth
```

To use no flags, specify the word "none".

```
EOH
```

```
rp="Any additional ld flags (NOT including libraries)?"
```

```
./myread
```

```
case "$ans" in
```

```
none) ldflags="";;
```

```
*) ldflags="$ans";;
```

```
esac
```

```
rmlist="$rmlist pdp11"
```

```
@if lkflags
```

```
: partial linking may need other flags
```

```
case "$lkflags" in
```

```
") case "$ldflags" in
```

```
) dflt='none';;
```

```
*) dflt="$ldflags";;
```

```
esac;;
```

```
*) dflt="$lkflags";;
```

```
esac
```

```
echo " "
```

```
rp="Partial linking flags to be used (NOT including -r)?"
```

```
./myread
```

```
case "$ans" in
```

```
in
```

```
none) lkflags="";;
```

```
*) lkflags="$ans";;
```

```
esac
```

```
@end
```

```
?X:
```

```
?X: If the user changes compilers after selecting a hint file, it's
```

```
?X: possible that the suggested ccflags/ldflags will be wrong. Try to
```



?X: compile and run a simple test program. Let the user see all the

?X: error messages. -- ADO and RAM

?X: Sometimes, particularly on Linux systems, there is a bad library

?X: (e.g. a dangling symlink or incompatible library or a "run-time"

?X: version but not a "development" version of a library). This test

?X: will catch those sorts of problems too, though how to fix them

?X: may not be obvious.

?X:

: coherency check

echo " "

echo "Checking your choice of C compiler and flags for coherency..." >&4

\$cat > try.c <<'EOF'

#include <stdio.h>

int main() { printf("Ok\n"); return(0); }

EOF

?X: Strip extra blanks in case some of the following variables are empty

set X \$cc -o try \$optimize \$ccflags \$ldflags try.c \$libs

shift

\$cat >try.msg <<'EOM'

I've tried to compile and run the following simple

program:

EOM

\$cat try.c >> try.msg

\$cat >> try.msg <<EOM

I used the command:

\$\*

\$run ./try

and I got the following output:

EOM

dflt=y

?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".

?X: We need to try the resulting executable, because cc might yield a 0 status

?X: even when ld failed, in which case the executable will not run properly,

?X: if its x bit is set at all..

if \$sh -c "\$cc -o try \$optimize \$ccflags \$ldflags try.c \$libs" >>try.msg 2>&1; then

if \$sh -c "\$run ./try " >>try.msg 2>&1; then

xxx=`\$run ./try`

case "\$xxx" in

"Ok") dflt=n ;;

\*) echo 'The program compiled OK, but produced no output.' >> try.msg ;;

esac

else

```

echo "The program compiled OK, but exited with status $?." >>try.msg
rp="You have a problem. Shall I abort Configure"
dflt=y
fi
else
echo "I can't compile the test program." >>try.msg
rp="You have a BIG problem. Shall I abort Configure"
dflt=y
fi
case "$dflt" in
y)
$cat try.msg >&4
?X: using -K will prevent
default aborting--maybe they're cross compiling?
case "$knowitall" in
")
echo "(The supplied flags or libraries might be incorrect.)"
;;
*) dflt=n;;
esac
echo " "
./myread
case "$ans" in
n*[N*]) ;;
*) echo "Ok. Stopping Configure." >&4
exit 1
;;
esac
;;
n) echo "OK, that should do.";;
esac
$rm_try gcctest gcctest.out

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/ccflags.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```

?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:01 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
?C: This
symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name. If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
case "$nametype" in
other) val="$undef" ;;
*)
$cat <<'EOM'

```

The scoreboard can be kept with one score per login name, or one score per full name. If users can change their full name, or if there is more than one person on your system with the same full name, you should keep the score by login name (the full name is still printed).

```

EOM
rp='Do you want the scoreboard kept by full name?'
. ./myread
case "$ans" in
y*) val="$define" ;;
*) val="$undef" ;;
esac
;;
esac
set d_scorfl
eval $setvar

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_scorfl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_sqrtl:

?S: This variable conditionally defines the HAS\_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS\_SQRTL:

?C: This symbol, if defined, indicates that the sqrtl routine is

?C: available to do long double square roots.

?C:.

?H:#\$d\_sqrtl HAS\_SQRTL /\*\*/

?H:.

?LINT:set d\_sqrtl

: see if sqrtl exists

set sqrtl d\_sqrtl

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d\_sqrtl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_dirent.U,v \$

?RCS: Revision 3.0.1.4 1994/10/29 16:20:01 ram

?RCS: patch36: failed scanning for 'd\_namlen' with missing <dirent.h> (ADO)

?RCS:  
?RCS: Revision 3.0.1.3 1994/06/20 07:01:25 ram  
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)  
?RCS: patch30: now checks for both struct dirent and direct (ADO)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/13 15:22:37 ram  
?RCS: patch27: new variable direntrytype for proper type setting (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/01/24  
14:11:15 ram  
?RCS: patch16: added new Direntry\_t pseudo-type for directory entries  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:17 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit looks whether there is a dirent system or not  
?X:  
?MAKE:i\_dirent d\_dirnamlen direntrytype: test contains Setvar \  
Myread Findhdr cppstdin cppflags cppminus rm\_try  
?MAKE: -pick add \$@ %<  
?S:i\_dirent:  
?S: This variable conditionally defines I\_DIRENT, which indicates  
?S: to the C program that it should include <dirent.h>.  
?S:.  
?S:d\_dirnamlen:  
?S: This variable conditionally defines DIRNAMLEN, which indicates  
?S: to the C program that the length of directory entry names is  
?S: provided by a d\_namelen field.  
?S:.  
?S:direntrytype:  
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on  
?S: whether dirent is available or not. You should use this pseudo type to  
?S: portably declare your directory entries.  
?S:.  
?C:I\_DIRENT:  
?C: This symbol, if defined, indicates to the C program  
that it should  
?C: include <dirent.h>. Using this symbol also triggers the definition  
?C: of the Direntry\_t define which ends up being 'struct dirent' or  
?C: 'struct direct' depending on the availability of <dirent.h>.  
?C:.  
?C:DIRNAMLEN:  
?C: This symbol, if defined, indicates to the C program that the length  
?C: of directory entry names is provided by a d\_namlen field. Otherwise  
?C: you need to do strlen() on the d\_name field.  
?C:.  
?C:Direntry\_t:

?C: This symbol is set to 'struct direct' or 'struct dirent' depending on  
?C: whether dirent is available or not. You should use this pseudo type to  
?C: portably declare your directory entries.

?C:.

```
?H:#$i_dirent I_DIRENT /**/
```

```
?H:#$d_dirnamlen DIRNAMLEN /**/
```

```
?H:%<:@if I_DIRENT && Direntry_t
```

```
?H:%<:#define Direntry_t $direntrytype
```

```
?H:%<:@end
```

?H:.

```
?T:xinc guess1 guess2
```

```
?LINT:set i_dirent d_dirnamlen
```

```
: see if this is a dirent system
```

```
echo " "
```

```
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
```

```
val="$define"
```

```
echo "<dirent.h> found." >&4
```

```
else
```

```
val="$undef"
```

```
if
```

```
xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
```

```
echo "<sys/dir.h> found." >&4
```

```
echo " "
```

```
else
```

```
xinc=`./findhdr sys/ndir.h`
```

```
fi
```

```
echo "<dirent.h> NOT found." >&4
```

```
fi
```

```
set i_dirent
```

```
eval $setvar
```

?X: Use struct dirent or struct direct? If we're using dirent.h,

?X: it's probably struct dirent, but apparently not always.

?X: Assume \$xinc still contains the name of the header file we're using.

```
@if direntrytype || Direntry_t
```

```
: Look for type of directory structure.
```

```
echo " "
```

```
$cppstdin $cppflags $cppminus < "$xinc" > try.c
```

```
case "$direntrytype" in
```

```
"| ")
```

```
case "$i_dirent" in
```

```
$define) guess1='struct dirent' ;;
```

```
*) guess1='struct direct' ;;
```

```
esac
```

```
::
```

```
*) guess1="$direntrytype"
```

```
::
```

```
esac
```

```
case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac
```

```
if $contains "$guess1" try.c >/dev/null 2>&1; then
direntrytype="$guess1"
echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
direntrytype="$guess2"
echo
"Your directory entries seem to be $direntrytype." >&4
else
echo "I don't recognize your system's directory entries." >&4
rp="What type is used for directory entries on this system?"
dflt="$guess1"
./myread
direntrytype="$ans"
fi
$rm_try
```

```
@end
```

```
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
echo "Good, your directory entry keeps length information in d_namlen." >&4
val="$define"
else
echo "Your directory entry does not know about the d_namlen field." >&4
val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try
```

```
@end
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i_dirent.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```

?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_thread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_thread_atfork HAS_PTHREAD_ATFORK /**/
?H:.
?LINT:set d_thread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef PTHREAD_ATFORK
    pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP

: see if pthread_atfork exists
set
try -DPTHREAD_ATFORK
if eval $compile; then
    val="$define"
else
    val="$undef"
fi
case "$usethreads" in
$define)
    case "$val" in
$define) echo 'pthread_atfork found.' >&4 ;;
*) echo 'pthread_atfork NOT found.' >&4 ;;
esac
esac
set d_thread_atfork
eval $setvar

```



Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d_pthread_atfork.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
```

```
?RCS: $Log: d_xdrs.U,v $
```

```
?RCS: Revision 3.0 1993/08/18 12:08:04 ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
```

```
?MAKE:d_xdrs: cat Csym Setvar
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_xdrs:
```

```
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
```

```
?S: program that XDR serialization routines are available.
```

```
?S:.
```

```
?C:HAS_XDRS (XDRS):
```

```
?C: This symbol if defined indicates to the C program that the XDR
```

```
?C: serialization routines are available to transfer data
```

```
across
```

```
?C: various architectures.
```

```
?C:.
```

```
?H:#$d_xdrs HAS_XDRS /**/
```

```
?H:.
```

```
?LINT:set d_xdrs
```

```
: see if XDR is available
```

```
echo " "
```

```
if set xdr_int val -f d_xdrs; eval $csym; $val; then
```

```
echo "Ahh! You have XDR routines for network communications." >&4
```

```
val="$define"
```

```
else
```

```
$cat >&4 <<EOM
```

```
Sigh! You do not have XDR routines -- Network communications may be hazardous.
```

```
EOM
```

```
val="$undef"
```

```
fi
```

```
set d_xdrs
```

```
eval $setvar
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d\_xdrs.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_expm1:

?S: This variable conditionally defines the HAS\_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS\_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d\_expm1 HAS\_EXPM1 /\*\*/

?H:.

?LINT:set d\_expm1

: see if expm1 exists

set expm1 d\_expm1

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d\_expm1.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hypot:

?S: This variable conditionally defines HAS\_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS\_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d\_hypot HAS\_HYPOT /\*\*/

?H:.

?LINT:set d\_hypot

: see if hypot exists

```
set hypot d_hypot
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_hypot.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?RCS: $Log: installstyle.U,v $
```

```
?RCS: Revision 1.2 1999/07/13 14:56:06 doughera
```

```
?RCS: Fix dependencies. Add more comments.
```

```
?RCS:
```

```
?RCS: Revision 1.1 1999/07/12 17:30:41 doughera
```

```
?RCS: Initial revision
```

```
?RCS:
```

```
?RCS:
```

```
?MAKE:installstyle: prefix Myread
```

```
?MAKE: -pick add $@ %<
```

```
?X: Myread dependence is for dflt.
```

```
?S:installstyle:
```

```
?S: This variable describes the "style" of the perl installation.
```

```
?S: This is intended to be useful for tools that need to
```

```
?S: manipulate entire perl
```

```
distributions. Perl itself doesn't use
```

```
?S: this to find its libraries -- the library directories are
```

```
?S: stored directly in Config.pm. Currently, there are only two
```

```
?S: styles: "lib" and "lib/perl5". The default library locations
```

```
?S: (e.g. privlib, sitelib) are either $prefix/lib or
```

```
?S: $prefix/lib/perl5. The former is useful if $prefix is a
```

```
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
```

```
?S: is useful if $prefix is shared by many packages, e.g. if
```

```
?S: $prefix=/usr/local.
```

```
?S:
```

```
?S: Unfortunately, while this "style" variable is used to set
```

```
?S: defaults for all three directory hierarchies (core, vendor, and
```

```
?S: site), there is no guarantee that the same style is actually
```

```
?S: appropriate for all those directories. For example, $prefix
```

```
?S: might be /opt/perl, but $siteprefix might be /usr/local.
```

?S: (Perhaps, in retrospect, the "lib" style should never have been supported, but it did seem like a nice idea at the time.)

?S:

?S: The situation is even less clear for tools such as MakeMaker

?S: that can be used to install additional modules into non-standard places. For example, if a user intends to install a module into a private directory (perhaps by setting PREFIX on the Makefile.PL command line), then there is no reason to assume that the Configure-time \$installstyle setting will be relevant for that PREFIX.

?S:

?S: This may later be extended to include other information, so be careful with pattern-matching on the results.

?S:

?S: For compatibility with perl5.005 and earlier, the default setting is based on whether or not \$prefix contains the string "perl".

?S:.

```
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
esac
;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/installstyle.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_syslog.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_syslog: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_syslog:  
?S: This variable conditionally defines the I\_SYSLOG symbol,  
?S: and indicates whether a C program should include <syslog.h>.  
?S:.  
?C:I\_SYSLOG:  
?C: This symbol, if defined, indicates that <syslog.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_syslog I\_SYSLOG /\*\*/  
?H:.  
?LINT:set i\_syslog  
: see if this is a syslog.h system  
set syslog.h i\_syslog  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/i\_syslog.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_raster.U 1 2006-08-24 12:32:52Z rmanfredi \$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic Licence,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: d\_raster.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:06:50 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_raster rasterlib: cat test Setvar Myread Oldconfig  
?MAKE: -pick add \$@ %<  
?S:d\_raster:  
?S: Conditionally defines RASTER\_TEK if this is a raster tech machine.  
?S:.  
?S:rasterlib (d\_rasterlib):  
?S: Set to the needed compile flag if this is a raster tech machine.  
?S: It is up to the Makefile to use this variable.  
?S:.  
?C:RASTER\_TEK:  
?C: Defined

```

if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib=""
if $test -r /dev/mirage; then
$cat <<'EOM'

```

You seem to have a mirage device... this is normally associated with a raster technologies graphics workstation. If this is right, you may want to use raster tech in this program.

```

EOM
dflt=y
case "$d_raster" in
"$undef") dflt=n;;
esac
rp='Use raster tech?'
. ./myread
case "$ans" in
y*) val="$define";;
esac
fi
set d_raster
eval $setvar

case "$d_raster" in
"$define") rasterlib='-lphigs';;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_raster.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:

```

```

?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0 1993/08/18 12:06:18 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
?S:.
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
?C: If not, you should
?C: probably use getcwd().
?C:.
?H:#$d_getwd HAS_GETWD /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
echo 'getwd() found.'>&4
val="$define"
else
echo 'getwd() not found. Assuming getcwd() exists.'>&4
val="$undef"
fi
set d_getwd
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_getwd.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_chsize.U,v $

```

?RCS: Revision 3.0 1993/08/18 12:05:50 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:d\_chsize: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_chsize:  
?S: This variable conditionally defines the CHSIZE symbol, which  
?S: indicates to the C program that the chsize() routine is available  
?S: to truncate files. You might need a -lx to get this routine.  
?S:.  
?C:HAS\_CHSIZE (CHSIZE):  
?C: This symbol, if defined, indicates that the chsize  
routine is available  
?C: to truncate files. You might need a -lx to get this routine.  
?C:.  
?H:#\$d\_chsize HAS\_CHSIZE /\*\*/  
?H:.  
?LINT:set d\_chsize  
: see if chsize exists  
set chsize d\_chsize  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_chsize.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: lib.U,v \$  
?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram  
?RCS: patch49: can now handle installation prefix changes (from WED)  
?RCS:  
?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram  
?RCS: patch32: now uses installation prefix to set the default  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:08:56 ram



?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:lib libexp: Getfile

Loc Oldconfig Prefixit Prefixup prefixexp

?MAKE: -pick add \$@ %<

?Y:TOP

?S:lib:

?S: This variable holds the name of the directory in which the user wants

?S: to put public library files for the package in question. It is most

?S: often a local directory such as /usr/local/lib. Programs using this

?S: variable must be prepared to deal with filename expansion.

?S:.

?S:libexp:

?S: This variable is the same as the lib variable, but is filename expanded

?S: at configuration time, for convenient use in your makefiles.

?S:.

: determine where public libraries go

set lib lib

eval \$prefixit

case "\$lib" in

")

dflt=`./loc . ." \$prefixexp/lib /usr/local/lib /usr/lib /lib`

set dflt

eval \$prefixup

::

\*) dflt="\$lib";;

esac

echo " "

fn=d~

rp='Where do you want to put the public libraries?'

./getfile

lib="\$ans"

libexp="\$ansexp"

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/lib.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera \$

?RCS:

?RCS: Copyright (c) 1999, Andy Dougherty

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

```

?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
  Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages. It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
  who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent. See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir="
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
  vendorman1direxp="
  ;;
*) : determine where vendor-supplied manual pages go.
  case "$vendorman1dir" in
  ") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
  *) dflt=$vendorman1dir ;;
  esac
case "$dflt" in
"|") dflt=none ;;
  esac
fn=nd~+
rp='Pathname for
the vendor-supplied manual section 1 pages?'
./getfile

```

```

vendorman1dir="$ans"
vendorman1direxp="$ansexp"
;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorman1dir.U

```

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_c99\_variadic\_macros: Compile Setvar cat rm\_try run

?MAKE: -pick add \$@ %<

?S:d\_c99\_variadic\_macros:

?S: This variable conditionally defines the HAS\_C99\_VARIADIC\_MACROS

?S: symbol, which indicates to the C program that C99 variadic macros

?S: are available.

?S:.

?C:HAS\_C99\_VARIADIC\_MACROS:

?C: If defined, the compiler supports C99 variadic macros.

?C:.

?H:#\$d\_c99\_variadic\_macros HAS\_C99\_VARIADIC\_MACROS /\*\*/

?H:.

?F:!try

: see if the Compiler supports C99 variadic macros

echo "Checking for C99 variadic macros." >&4

\$cat >try.c <<EOCP

#include

<stdio.h>

#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, \_\_VA\_ARGS\_\_)

```

int main() {

```

```

    char buf[20];

```

```

    foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");

```

```

    puts(buf);

```

```

return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
    case "`$run ./try`" in
    "123 456 789")
    echo "You have C99 variadic macros." >&4
    d_c99_variadic_macros="$define"
    ;;
    *)
    echo "You don't have functional C99 variadic macros." >&4
    d_c99_variadic_macros="$undef"
    ;;
    esac
else
    echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
    d_c99_variadic_macros="$undef"
fi
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/perl/d_c99_variadic.U

```

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Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/patname
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/lib/errnolist.mk
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/manicheck
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/kitpost
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/manifake
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/patdiff
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/patcol
*
/opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/bin/metaconfig
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

```

5.32.1~rc1/bin/makedist  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/dist/bindex  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/mlint  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/makeSH  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patindex  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patpost  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/packinit  
\*  
/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/metalint  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patftp  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/kitsend  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patnotify  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patmake  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patsend  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patcil  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/pat  
\*  
/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patclean  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/jmkmf  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patbase  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/mconfig  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/manilist  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/jmake  
\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patlog  
\*  
/opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-  
5.32.1~rc1/bin/patsnap

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/makegloss
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/files/fixcpp
```

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?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_atolf: Inlibc

?MAKE:-pick add \$@ %<

?S:d\_atolf:

?S: This variable conditionally defines the HAS\_ATOLF symbol, which

?S: indicates to the C program that the atolf() routine is available.

?S:.

?C:HAS\_ATOLF:

?C: This symbol, if defined, indicates that the atolf routine is

?C: available to convert strings into long doubles.

?C:.

?H:#\$d\_atolf HAS\_ATOLF /\*\*/

?H:.

?LINT:set d\_atolf

: see if atolf exists

set atolf d\_atolf

eval \$inlibc

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/atolf.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: i\_malloc.U,v \$

?RCS: Revision 3.0 1993/08/18 12:08:21 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:  
?MAKE:i\_malloc: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_malloc:  
?S: This variable conditionally defines the I\_MALLOC symbol, and indicates  
?S: whether a C program should include <malloc.h>.  
?S:.  
?C:I\_MALLOC:  
?C: This symbol, if defined, indicates to the C program that it should  
?C: include <malloc.h>.  
?C:.  
?H:#\$i\_malloc I\_MALLOC /\*\*/  
?H:.  
?LINT:set i\_malloc  
: see if this is a malloc.h system  
set  
malloc.h i\_malloc  
eval \$inhdr

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/i\_malloc.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: gidtype.U,v \$  
?RCS: Revision 3.0.1.3 1994/08/29 16:21:44 ram  
?RCS: patch32: now uses new Typedef unit to compute type information  
?RCS: patch32: removed useless usage of Setvar (for now)  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/13 15:21:07 ram  
?RCS: patch27: added lint hint  
?RCS:  
?RCS: Revision 3.0.1.1 1994/05/06 15:01:51 ram  
?RCS: patch23: protected gidtype setting via setvar (ADO)  
?RCS: patch23: made Gid\_t comment more explicit (ADO)  
?RCS:  
?RCS: Revision

3.0 1993/08/18 12:08:11 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:gidtype: Myread Typedef Findhdr

?MAKE: -pick add \$@ %<

?S:gidtype:

?S: This variable defines Gid\_t to be something like gid\_t, int,

?S: ushort, or whatever type is used to declare the return type

?S: of getgid(). Typically, it is the type of group ids in the kernel.

?S:.

?C:Gid\_t (GIDTYPE):

?C: This symbol holds the return type of getgid() and the type of

?C: argument to setrgid() and related functions. Typically,

?C: it is the type of group ids in the kernel. It can be int, ushort,

?C: gid\_t, etc... It may be necessary to include <sys/types.h> to get

?C: any typedef'ed information.

?C:.

?H:#define Gid\_t \$gidtype /\* Type for getgid(), etc... \*/

?H:.

?T:xxx

: see what type gids are declared as in the kernel

echo " "

echo "Looking for the type for group ids returned by getgid()."

set gid\_t gidtype xxx stdio.h sys/types.h

eval \$typedef

case "\$gidtype" in

xxx)

xxx=`./findhdr sys/user.h`

set `grep

'groups\[NGROUPS\];' "\$xxx" 2>/dev/null` unsigned short

case \$1 in

unsigned) dflt="\$1 \$2" ;;

\*) dflt="\$1" ;;

esac

;;

\*) dflt="\$gidtype";;

esac

case "\$gidtype" in

gid\_t) echo "gid\_t found." ;;

\*) rp="What is the type for group ids returned by getgid()?"

. ./myread

gidtype="\$ans"

;;

esac

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

5.32.1~rc1/U/typedefs/gidtype.U



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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 15:32:18 ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:53 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
or
?S: not the user has specified 'portability'. This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had #undef CSH ""
?X: which the compiler didn't like. It's easy to work around this,
?X: so I did. --AD 3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H: ?%<: # $d_csh HAS_CSH /**/
```

```

?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
"$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/d_csh.U

```

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?RCS:

?MAKE:i\_fenv: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_fenv:

?S: This variable conditionally defines the I\_FENV symbol, which

?S: indicates to the C program that <fenv.h> exists and should

?S: be included.

?S:.

?C:I\_FENV:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <fenv.h> to get the floating point environment definitions.

?C:.

?H:#\$i\_fenv I\_FENV /\*\*/

?H:.

?LINT:set i\_fenv

: see if this is a fenv.h system

set fenv.h i\_fenv

eval \$inhdr

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/i_fenv.U

```

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_time.U,v \$

?RCS: Revision 3.0.1.2 1995/07/25 14:07:43 ram

?RCS: patch56: typo fix, sytem -> system

?RCS:

?RCS: Revision 3.0.1.1 1994/10/29 16:16:38 ram

?RCS: patch36: now uses new Typedef unit to compute type information (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:07:45 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X: Maybe <sys/types.h> should be included?

?X:INC: i\_systypes

?MAKE:d\_time timetype: Csym Setvar Findhdr Myread Typedef

?MAKE: -pick add \$@ %<

?S:d\_time:

?S: This

variable conditionally defines the HAS\_TIME symbol, which indicates

?S: that the time() routine exists. The time() routine is normally

?S: provided on UNIX systems.

?S:.

?S:timetype:

?S: This variable holds the type returned by time(). It can be long,

?S: or time\_t on BSD sites (in which case <sys/types.h> should be

?S: included). Anyway, the type Time\_t should be used.

?S:.

?C:HAS\_TIME (TIMER):

?C: This symbol, if defined, indicates that the time() routine exists.

?C:.

?C:Time\_t (TIMETYPE):

?C: This symbol holds the type returned by time(). It can be long,

?C: or time\_t on BSD sites (in which case <sys/types.h> should be

?C: included).

?C:.

?H:#\$d\_time HAS\_TIME /\*\*/

?H:#define Time\_t \$timetype /\* Time type \*/

?H:.

```

?LINT:set d_time
: see if time exists
echo " "
if set time val -f d_time; eval $csym; $val; then
echo 'time() found.' >&4
val="$define"
set time_t timetype long stdio.h sys/types.h
eval $typedef
dflt="$timetype"
echo " "
rp="What type is returned by time() on this
system?"
./myread
timetype="$ans"
else
echo 'time() not found, hope that will do.' >&4
val="$undef"
timetype='int';
fi
set d_time
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1-rc1/dist/U/d_time.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $

```

```

?RCS:

```

```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```

```

?RCS:

```

```

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?RCS: as specified in the README file that comes with the distribution.

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```

```

?RCS: of the source tree for dist 4.0.

```

```

?RCS:

```

```

?RCS: $Log: lintlib.U,v $

```

```

?RCS: Revision 3.0 1993/08/18 12:09:05 ram

```

```

?RCS: Baseline for dist 3.0 netwide release.

```

```

?RCS:

```

```

?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig

```

```

?MAKE: -pick add $@ %<

```

```

?S:lintlib:

```

```

?S: This variable holds the name of the directory in which the user wants

```

```

?S: to put public lint-library files for the package in question. It is

```

```

?S: most often a local directory such as /usr/local/lib/lint. Programs using

```

```

?S: this variable must be prepared to

```

deal with ~name expansion.

?S:.

?S:lintlibexp:

?S: This variable is the same as the lintlib variable, but is filename

?S: expanded at configuration time, for convenient use in your makefiles.

?S:.

: determine where public lint libraries go

case "\$lintlib" in

") dflt=`./loc . ." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;

\*) dflt="\$lintlib" ;;

esac

echo " "

fn=d~

rp="Where do you want to put the public lint libraries?"

./getfile

lintlib="\$ans"

lintlibexp="\$ansexp"

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/lintlib.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1996, Andy Dougherty

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?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_strtoul.U,v \$

?RCS: Revision 3.0.1.1 1997/02/28 15:46:43 ram

?RCS: patch61: created

?RCS:

?RCS:

?MAKE:d\_strtoul: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtoul:

?S: This variable conditionally defines the HAS\_STRTOUL symbol, which

?S: indicates to the C program that the strtoul() routine is available

?S: to provide conversion of strings to unsigned long.

?S:.

?C:HAS\_STRTOUL (STRTOUL):

?C: This symbol, if defined, indicates that the strtoul routine is

?C: available  
to provide conversion of strings to unsigned long.  
?C:.  
?H:#\$d\_strtoul HAS\_STRTOUL /\*\*/  
?H:.  
?LINT:set d\_strtoul  
: see if strtoul exists  
set strtoul d\_strtoul  
eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_strtoul.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp \$  
?RCS:  
?RCS: Copyright (c) 1991-1993, Raphael Manfredi  
?RCS:  
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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: prototype.U,v \$  
?RCS: Revision 3.0.1.3 1994/05/06 15:11:49 ram  
?RCS: patch23: ensure cc flags used when looking for prototype support  
?RCS:  
?RCS: Revision 3.0.1.2 1994/01/24 14:15:36 ram  
?RCS: patch16: prototype handling macros now appear only when needed  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:03:12 ram  
?RCS: patch6: defines were referring to non-existent VOID symbol  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:36 ram  
?RCS: Baseline for dist  
3.0 netwide release.  
?RCS:  
?MAKE:prototype: Nothing  
?S:prototype:  
?S: This variable holds the eventual value of CAN\_PROTOTYPE, which  
?S: indicates the C compiler can handle function prototypes.  
?S:.  
: stub, never used  
prototype=nothing

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/modified/prototype.U

No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_wcsxfrm: Compile cat rm\_try run Oldconfig Setvar

?MAKE: -pick add \$@ %<

?S:d\_wcsxfrm:

?S: This variable conditionally defines the HAS\_WCSXFRM symbol if the

?S: wcsxfrm() routine is available and can be used to compare wide

?S: character strings.

?S:.

?C:HAS\_WCSXFRM:

?C: This symbol, if defined, indicates that the wcsxfrm routine is

?C: available to tranform a wide character string for wscmp().

?C:.

?H:#\$d\_wcsxfrm HAS\_WCSXFRM /\*\*/

?H:.

?F:!try

?LINT: set d\_wcsxfrm

: look for wcsxfrm

echo " "

\$cat >try.c <<'EOCP'

#include

<errno.h>

#include <wchar.h>

int main ()

{

  wchar\_t dst[4], \*src = L" ";

  errno = 0;

  return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);

}

EOCP

set try

?X: if \$cc \$ccflags \$ldflags -o try try.c \$libs >/dev/null 2>&1 ; then

val="\$undef"

if eval \$compile; then

  `\$run ./try`

  case "\$?" in

0) echo "A working wcsxfrm() found." >&4

  val="\$define" ;;

```

*) echo "wcsxfrm() found, but it doesn't work" >&4
;;
esac
else
  echo "wcsxfrm() NOT found." >&4
fi
set d_wcsxfrm
eval $setvar
$rm_try

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/perl/d_wcsxfrm.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?RCS: \$Log: archname.U,v \$

?RCS: Revision 3.0.1.3 1997/02/28 15:24:32 ram

?RCS: patch61: changed the way the archname is mangled from uname

?RCS:

?RCS: Revision 3.0.1.2 1995/05/12 12:05:24 ram

?RCS: patch54: protect against spaces in "uname -m" output (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1995/02/15 14:14:21 ram

?RCS: patch51: created

?RCS:

?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm

?MAKE: -pick add \$@ %<

?S:archname:

?S: This variable is a short name to characterize the current

?S: architecture.

It is used mainly to construct the default archlib.

?S:.

?S:myarchname:

?S: This variable holds the architecture name computed by Configure in

?S: a previous run. It is not intended to be perused by any user and

?S: should never be set in a hint file.

?S:.

?C:ARCHNAME:



?C: This symbol holds a string representing the architecture name.  
?C: It may be used to construct an architecture-dependant pathname  
?C: where library files may be held under a private library, for  
?C: instance.  
?C:.

```
?H:#define ARCHNAME "$archname" /**/
```

?H:.

```
?T:xxx tarch
```

: determine the architecture name

```
echo " "
```

?X: We always recompute archname in case osname changes. However, we need

?X: to be careful since, as ADO rightfully pointed out, some systems pick

?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under

?X: HP-UX). Therefore, we allow hint files to supersede our guess and ask

?X: the user for confirmation.

```
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
```

```
  tarch=`arch`-"-$osname"
```

```
elif
```

```
  xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
```

```
  if uname -m > tmparch 2>&1 ; then
```

```
    tarch=`$sed -e 's/ *$//' -e 's/_/g' \
```

```
      -e 's/$/"-$osname/" tmparch`
```

```
  else
```

```
    tarch="$osname"
```

```
  fi
```

```
  $rm -f tmparch
```

```
else
```

```
  tarch="$osname"
```

```
fi
```

```
case "$myarchname" in
```

```
  "|"$tarch") ;;
```

```
*)
```

```
  echo "(Your architecture name used to be $myarchname.)"
```

```
  archname="
```

```
;;
```

```
esac
```

```
case "$archname" in
```

```
  ") dflt="$tarch";;
```

```
  *) dflt="$archname";;
```

```
esac
```

```
rp='What is your architecture name'
```

```
./myread
```

```
archname="$ans"
```

```
myarchname="$tarch"
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
```

```
5.32.1~rc1/dist/U/archname.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2016 H.Merijn Brand & Todd Rinaldo
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM
```

Historically Perl has provided a final fallback of the current working directory '.' when searching for a library. This, however, can lead to problems when a Perl program which loads optional modules is called from a shared directory. This can lead to executing unexpected code.

EOM

```
# When changing to exclude by
default:
case "$default_inc_excludes_dot" in
  $undef|false|[nN]*) dflt="n" ;;
  *) dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#  $define|true|[yY]*) dflt="y" ;;
#  *) dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
./myread
case "$ans" in
  [nN]|undef) default_inc_excludes_dot="$undef" ;;
  *) default_inc_excludes_dot="$define" ;;
esac
```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/defaultincdot.U

No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:d\_gai\_strerror: Compile cat rm\_try run Oldconfig Setvar

?MAKE: -pick add \$@ %<

?S:d\_gai\_strerror:

?S: This variable conditionally defines the HAS\_GAI\_STRERROR symbol

?S: if the gai\_strerror() routine is available and can be used to

?S: translate error codes returned by getaddrinfo() into human

?S: readable strings.

?S:.

?C:HAS\_GAI\_STRERROR:

?C: This symbol, if defined, indicates that the gai\_strerror routine

?C: is available to translate error codes returned by getaddrinfo()

?C: into human readable strings.

?C:.

?H:#\$d\_gai\_strerror

HAS\_GAI\_STRERROR /\*\*/

?H:.

?F:!try

?LINT: set d\_gai\_strerror

: look for gai\_strerror

echo " "

\$cat >try.c <<'EOCP'

#include <sys/types.h>

#include <sys/socket.h>

#include <netdb.h>

int main ()

```
{
    return (gai_strerror (0) ? 0 : 1);
}
```

EOCP

set try

?X: if \$cc \$ccflags \$ldflags -o try try.c \$libs >/dev/null 2>&1 ; then

val="\$undef"

if eval \$compile; then

`\$run ./try`

```

case "$?" in
0) echo "A working gai_strerror() found." >&4
   val="$define" ;;
*) echo "gai_strerror() found, but it doesn't work" >&4
   ;;
esac
else
echo "gai_strerror() NOT found." >&4
fi
set d_gai_strerror
eval $setvar
$rm_try

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/d_gai_strerror.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: perlsv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
   i8type u8type i16type u16type i32type u32type i64type u64type \
   i8size u8size i16size u16size i32size u32size i64size u64size \
   d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
   d_nv_zero_is_allbits_zero: \

```

```
echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \

```

```
d_longdbl uselongdouble longdblsize doublesize i_quadmath \

```

```
shortsize intsize longsize i_stdlib libs gccversion \

```

```
cat Compile i_inttypes test signal_t run

```

?MAKE: -pick add \$@ %<

?S:ivtype:

?S: This variable contains the C type used for Perl's IV.

?S:.

?S:uvtype:

?S: This variable contains the C type used for Perl's UV.

?S:.

?S:nvtype:

?S: This variable contains the C type used for Perl's NV.

?S:.

?S:i8type:

?S: This variable contains the C type used for Perl's I8.

?S:.

?S:u8type:  
?S: This variable contains the C type used for Perl's U8.  
?S:.  
?S:i16type:  
?S: This variable contains the C type used for Perl's I16.  
?S:.  
?S:u16type:  
?S: This variable contains the C type used for Perl's U16.  
?S:.  
?S:i32type:  
?S: This variable contains the C type used for Perl's I32.  
?S:.  
?S:u32type:  
?S: This variable contains the C type used for Perl's U32.  
?S:.  
?S:i64type:  
?S: This variable contains the C type used for Perl's I64.  
?S:.  
?S:u64type:  
?S: This variable contains the C type used for Perl's U64.  
?S:.  
?S:ivsize:  
?S: This variable is the size of an IV in bytes.  
?S:.  
?S:uvsize:  
?S: This variable is the size of a UV in bytes.  
?S:.  
?S:i8size:  
?S: This variable is the size of an I8 in bytes.  
?S:.  
?S:u8size:  
?S: This variable is the size of an U8 in bytes.  
?S:.  
?S:i16size:  
?S: This variable is the  
size of an I16 in bytes.  
?S:.  
?S:u16size:  
?S: This variable is the size of an U16 in bytes.  
?S:.  
?S:i32size:  
?S: This variable is the size of an I32 in bytes.  
?S:.  
?S:u32size:  
?S: This variable is the size of an U32 in bytes.  
?S:.  
?S:i64size:  
?S: This variable is the size of an I64 in bytes.

?S:.

?S:u64size:

?S: This variable is the size of an U64 in bytes.

?S:.

?S:nvsize:

?S: This variable is the size of a Perl NV in bytes.

?S: Note that some floating point formats have unused bytes.

?S:.

?S:d\_nv\_preserves\_uv:

?S: This variable indicates whether a variable of type nvtype

?S: can preserve all the bits a variable of type uvtype.

?S:.

?S:nv\_preserves\_uv\_bits:

?S: This variable indicates how many of bits type uvtype

?S: a variable nvtype can preserve.

?S:.

?S:nv\_overflows\_integers\_at:

?S: This variable gives the largest integer value that NVs can hold

?S: as a constant floating point expression.

?S: If it could not be determined, it holds the value 0.

?S:.

?S:d\_nv\_zero\_is\_allbits\_zero:

?S: This

variable indicates whether a variable of type nvtype

?S: stores 0.0 in memory as all bits zero.

?S:.

?C:IVTYPE:

?C: This symbol defines the C type used for Perl's IV.

?C:.

?C:UVTYPE:

?C: This symbol defines the C type used for Perl's UV.

?C:.

?C:I8TYPE:

?C: This symbol defines the C type used for Perl's I8.

?C:.

?C:U8TYPE:

?C: This symbol defines the C type used for Perl's U8.

?C:.

?C:I16TYPE:

?C: This symbol defines the C type used for Perl's I16.

?C:.

?C:U16TYPE:

?C: This symbol defines the C type used for Perl's U16.

?C:.

?C:I32TYPE:

?C: This symbol defines the C type used for Perl's I32.

?C:.

?C:U32TYPE:

?C: This symbol defines the C type used for Perl's U32.  
?C:.  
?C:I64TYPE:  
?C: This symbol defines the C type used for Perl's I64.  
?C:.  
?C:U64TYPE:  
?C: This symbol defines the C type used for Perl's U64.  
?C:.  
?C:NVTYPE:  
?C: This symbol defines the C type used for Perl's NV.  
?C:.  
?C:IVSIZE:  
?C: This symbol contains the sizeof(IV).  
?C:.  
?C:UVSIZE:  
?C: This symbol contains the  
sizeof(UV).  
?C:.  
?C:I8SIZE:  
?C: This symbol contains the sizeof(I8).  
?C:.  
?C:U8SIZE:  
?C: This symbol contains the sizeof(U8).  
?C:.  
?C:I16SIZE:  
?C: This symbol contains the sizeof(I16).  
?C:.  
?C:U16SIZE:  
?C: This symbol contains the sizeof(U16).  
?C:.  
?C:I32SIZE:  
?C: This symbol contains the sizeof(I32).  
?C:.  
?C:U32SIZE:  
?C: This symbol contains the sizeof(U32).  
?C:.  
?C:I64SIZE:  
?C: This symbol contains the sizeof(I64).  
?C:.  
?C:U64SIZE:  
?C: This symbol contains the sizeof(U64).  
?C:.  
?C:NVSIZE:  
?C: This symbol contains the sizeof(NV).  
?C: Note that some floating point formats have unused bytes.  
?C: The most notable example is the x86\* 80-bit extended precision  
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit  
?C: platforms, respectively), but which only uses 10 bytes.

?C: Perl compiled with -Duselongsdouble on x86\* is like this.

?C:.

?C:NV\_PRESERVES\_UV:

?C: This symbol, if defined, indicates that a variable of type NVTYPE

?C: can preserve all the bits of a variable of type UVTYPE.

?C:.

?C:NV\_PRESERVES\_UV\_BITS:

?C: This

symbol contains the number of bits a variable of type NVTYPE

?C: can preserve of a variable of type UVTYPE.

?C:.

?C:NV\_OVERFLOWES\_INTEGERS\_AT:

?C: This symbol gives the largest integer value that NVs can hold. This

?C: value + 1.0 cannot be stored accurately. It is expressed as constant

?C: floating point expression to reduce the chance of decimal/binary

?C: conversion issues. If it can not be determined, the value 0 is given.

?C:.

?C:NV\_ZERO\_IS\_ALLBITS\_ZERO:

?C: This symbol, if defined, indicates that a variable of type NVTYPE

?C: stores 0.0 in memory as all bits zero.

?C:.

```
?H:#define IVTYPE $ivtype /**/
?H:#define UVTYPE $uvtype /**/
?H:#define I8TYPE $i8type /**/
?H:#define U8TYPE $u8type /**/
?H:#define I16TYPE $i16type /**/
?H:#define U16TYPE $u16type /**/
?H:#define I32TYPE $i32type /**/
?H:#define U32TYPE $u32type /**/
?H:%<:#ifdef HAS_QUAD
?H:%<:#define I64TYPE $i64type /**/
?H:%<:#define U64TYPE $u64type /**/
?H:%<:#endif
?H:#define NVTYPE $nvtype /**/
?H:#define IVSIZE $ivsize /**/
?H:#define UVSIZE $uvsize /**/
?H:#define I8SIZE $i8size /**/
?H:#define U8SIZE $u8size /**/
?H:#define I16SIZE $i16size /**/
?H:#define U16SIZE $u16size /**/
?H:#define I32SIZE $i32size /**/
?H:#define U32SIZE $u32size /**/
?H:%<:#ifdef
HAS_QUAD
?H:%<:#define I64SIZE $i64size /**/
?H:%<:#define U64SIZE $u64size /**/
?H:%<:#endif
?H:#define NVSIZE $nvsize /**/
```



```

?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:%<:#if UVSIZE == 8
?H:%<:#  ifdef BYTEORDER
?H:%<:#    if BYTEORDER == 0x1234
?H:%<:#      undef BYTEORDER
?H:%<:#      define BYTEORDER 0x12345678
?H:%<:#    else
?H:%<:#      if BYTEORDER == 0x4321
?H:%<:#        undef BYTEORDER
?H:%<:#        define BYTEORDER 0x87654321
?H:%<:#
?H:%<:#      endif
?H:%<:#    endif
?H:%<:#  endif
?H:%<:# endif
?H:%<:#endif
?H:.
?T:xxx
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

```

```

case "$use64bitint:$d_quad:$quadtype" in
define:define:?)
ivtype="$quadtype"
uvtype="$uquadtype"
ivsize=8
uvsize=8
;;
*) ivtype="long"
uvtype="unsigned long"
ivsize=$longsize
uvsize=$longsize
;;
esac

```

```

case "$uselongdouble:$d_longdbl" in
define:define)
nvtype="long double"
nvsize=$longdblsize
;;
*) nvtype=double
nvsize=$doublesize
;;

```

```
esac
```

```
case "$usequadmath:$i_quadmath" in
define:define)
  nvtype="__float128"
  nvsz=16
  case "$libs" in
  *quadmath*) ;;
  *) $cat <<EOM >&4
```

```
*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
```

```
EOM
```

```
  exit 1
  ;;
esac
;;
define:*) $cat <<EOM >&4
```

```
*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
```

```
EOM
```

```
  case "$gccversion" in
  [23].*[4.[0-5]*)
  $cat <<EOM >&4
  *** Your gcc looks a bit old:
  *** $gccversion
```

```
EOM
```

```
  ;;
  ")
  $cat <<EOM >&4
  *** You are not running a gcc.
```

```
EOM
```

```
  ;;
esac
$cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
```

```
EOM
```

```
  exit 1
  ;;
esac
```

```
$echo "(IV will be \"$ivtype\", $ivszie bytes)"
$echo "(UV will be \"$uvtype\", $uvszie bytes)"
$echo "(NV will be \"$nvtype\", $nvszie bytes)"
```

```

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
    int8_t i = INT8_MAX;
    uint8_t u = UINT8_MAX;
    printf("int8_t\n");
#endif
#ifdef INT16
    int16_t i = INT16_MAX;
    uint16_t u = UINT16_MAX;
    printf("int16_t\n");
#endif
#ifdef INT32
    int32_t i = INT32_MAX;
    uint32_t u = UINT32_MAX;
    printf("int32_t\n");
#endif
}
EOCP

```

```

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

```

```

case "$i16type" in
") case "$shortsize" in
2) i16type=short
    u16type="unsigned
    short"
    i16size=$shortsize
    u16size=$shortsize
    ;;
esac
;;
esac

```

```

case "$i16type" in
") set try -DINT16
if eval $compile; then
case "$run ./try`" in
int16_t)
    i16type=int16_t
    u16type=uint16_t

```

```
    i16size=2
    u16size=2
    ;;
  esac
fi
;;
esac
case "$i16type" in
  *) if $test $shortsize -ge 2; then
      i16type=short
      u16type="unsigned short"
      i16size=$shortsize
      u16size=$shortsize
    fi
    ;;
  esac
```

```
case "$i32type" in
  *) case "$longsize" in
      4) i32type=long
         u32type="unsigned long"
         i32size=$longsize
         u32size=$longsize
       ;;
      *) case "$intsize" in
          4) i32type=int
             u32type="unsigned int"
             i32size=$intsize
             u32size=$intsize
           ;;
        esac
      ;;
    esac
  ;;
esac
```

```
case "$i32type" in
  *) set try -DINT32
     if eval $compile; then
       case "`$run ./try`" in
         int32_t)
           i32type=int32_t
           u32type=uint32_t
           i32size=4
           u32size=4
         ;;
       esac
     fi
  ;;
esac
```

```

esac
case "$i32type" in
") if $test $intsize -ge 4; then
    i32type=int
    u32type="unsigned int"
    i32size=$intsize
    u32size=$intsize
    fi
;;
esac

```

```

case
"$i64type" in
") case "$d_quad:$quadtype" in
define:?)
    i64type="$quadtype"
    u64type="$uquadtype"
    i64size=8
    u64size=8
    ;;
esac
;;
esac

```

\$echo "Checking how many bits of your UVs your NVs can preserve..." >&4

```

$cat <<EOP >try.c
#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bleached = 0;
$signal_t blech(int s) { bleached = 1; }
#endif
int main() {
    $svtype u = 0;
    $nvtype d;
    int n = 8 * $svsize;
    int i;
#ifdef SIGFPE
    signal(SIGFPE, blech);
#endif

    for (i = 0; i < n; i++) {

```

```

    u = u << 1 | ($svtype)1;
    d = ($nvtype)u;
    if (($svtype)d != u)
        break;
    if (d <= 0)
break;
    d = ($nvtype)(u - 1);
    if (($svtype)d != (u - 1))
        break;
#ifdef SIGFPE
    if (bletched)
break;
#endif
    }
    printf("%d\n",
((i == n) ? -n : i));
    exit(0);
}
EOP
set try

d_nv_preserves_uv="$undef"
if eval $compile; then
    nv_preserves_uv_bits="$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\[1-9]*)
    nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
    $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs." 2>&1
    d_nv_preserves_uv="$define"
    ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs." 2>&1
    d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." 2>&1
    nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
#include <stdio.h>

typedef $nvtype NV;

int
main() {
    NV value = 2;
    int count = 1;

```

```

while(count < 256) {
/* volatile so that the compiler has to store it out to memory */
volatile NV up = value + 1.0;
volatile NV negated = -value;
volatile NV down = negated - 1.0;
volatile NV got_up = up
- value;
int up_good = got_up == 1.0;
int got_down = down - negated;
int down_good = got_down == -1.0;

if (down_good != up_good) {
fprintf(stderr,
    "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
    up_good, (double) got_up, down_good, (double) got_down,
    count, (double) value);
return 1;
}
if (!up_good) {
while (1) {
if (count > 8) {
count -= 8;
fputs("256.0", stdout);
} else {
count--;
fputs("2.0", stdout);
}
if (!count) {
puts("");
return 0;
}
fputs("2.0", stdout);
}
}
value *= 2;
++count;
}
fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
    count, (double) value);
return 1;
}
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
xxx="$run ./try`"

```

```

    case "$?" in
0)
    case "$xxx" in
2*) cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM

```

```

    nv_overflows_integers_at="$xxx"
    ;;
*) cat
>&4 <<EOM

```

Cannot determine the largest integer value your NVs can hold, unexpected output '\$xxx'

```

EOM
    ;;
    esac
    ;;
*) cat >&4 <<EOM

```

Cannot determine the largest integer value your NVs can hold

```

EOM
    ;;
    esac
fi
$rm_try

```

\$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4

```

$cat <<EOP >try.c
#include <stdio.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bleched = 0;
$signal_t blech(int s) { bleched = 1; }
#endif

```

```

int checkit($nvtype d, const char *where) {
    void *v = &d;
    unsigned char *p = (unsigned char *)v;
    unsigned char *end = p + sizeof(d);
    int fail = 0;

    while (p < end)
fail += *p++;

```



```

    if (!fail)
return 0;

    p = (unsigned char *)v;
    printf("No - %s: 0x", where);
    while (p < end)
printf ("%02X", *p++);
    printf("\n");
    return 1;
}

int
main(int argc, char **argv) {
    $nvttype d = 0.0;
    int fail = 0;
    fail += checkit(d, "0.0");

    /* The compiler shouldn't be assuming that bleched is 0 */
    d = bleched;

    fail += checkit(d, "bleched");

#ifdef SIGFPE
    signal(SIGFPE, blech);
#endif

    /* Paranoia - the compiler should have no way of knowing that ANSI says
       that argv[argc] will always be NULL. Actually, if it did assume this it
       would be buggy, as this is C and main() can be called from elsewhere in
       the program. */
    d = argv[argc] ? 1 : 0;

    if (d) {
printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
    }

    fail += checkit(d, "ternary");

    memset(&d, sizeof(d), argv[argc] ? 1 : 0);

    if (d != 0.0) {
printf("No - memset doesn't give 0.0\n");
/* This might just blow up: */
printf("(gives %g)\n", d);
return 1;
    }
}

```

```

#ifdef SIGFPE
    if (bletched) {
printf("No - something bleched\n");
return 1;
    }
#endif
    if (fail) {
        printf("No - %d fail(s)\n",
fail);
        return 1;
    }
    printf("Yes\n");
    return 0;
}
EOP
set try

```

```

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
    xxx="$run ./try`"
    case "$?" in
0)
        case "$xxx" in
Yes) cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM

```

```

        d_nv_zero_is_allbits_zero="$define"
        ;;
*) cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM

```

```

        d_nv_zero_is_allbits_zero="$undef"
        ;;
esac
        ;;
*) cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM

```

```

        d_nv_zero_is_allbits_zero="$undef"
        ;;
esac
fi

```

\$rm\_try

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/perl/perl5v.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:12:46 ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_fmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
:
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder  $r=x-n*y$  where  $n=\text{trunc}(x/y)$ .
?C:.
?H:#$d_fmod HAS_FMOD /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
eval $inlibc
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d_fmod.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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```

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: libs.U,v \$  
?RCS: Revision 3.0.1.6 1997/02/28 16:09:11 ram  
?RCS: patch61: replaced .a with \$\_a all over the place  
?RCS:  
?RCS: Revision 3.0.1.5 1995/07/25 14:12:05 ram  
?RCS: patch56: now knows about OS/2 platforms  
?RCS:  
?RCS: Revision 3.0.1.4 1994/10/29 16:24:22 ram  
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)  
?RCS:  
?RCS: Revision 3.0.1.3 1994/06/20 07:05:44 ram  
?RCS: patch30: code cleanup with if/elif by ADO and RAM  
?RCS: patch30:  
    undone patch23 for libswanted default setting  
?RCS:  
?RCS: Revision 3.0.1.2 1994/05/06 15:08:45 ram  
?RCS: patch23: now includes ordered default libswanted variable (ADO)  
?RCS: patch23: major cleanup for library lookups (ADO)  
?RCS:  
?RCS: Revision 3.0.1.1 1993/08/25 14:02:31 ram  
?RCS: patch6: added default for libs  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:03 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:libs ignore\_versioned\_solibs libsfound libsfiles libsdirs libspath: \  
test cat Myread Oldconfig Loc libpth package xlibpth so \_a \  
usesocks sed uselongdouble usequadmath  
?MAKE: -pick add \$@ %<  
?S:libs:  
?S: This variable holds the additional libraries we want to use.  
?S: It is up to the Makefile to deal with it. The list can be empty.  
?S:.  
?S:libsfound:  
?S: This variable holds the full pathnames of the libraries  
?S: we found and accepted.  
?S:.  
?S:libsfiles:  
?S: This variable holds the filenames aka basenames of the libraries  
?S: we found and accepted.  
?S:.  
?S:libsdirs:  
?S: This

variable holds the directory names aka dirnames of the libraries

?S: we found and accepted, duplicates are removed.

?S:.

?S:libspath:

?S: This variable holds the directory names probed for libraries.

?S:.

?S:ignore\_versioned\_solibs:

?S: This variable should be non-empty if non-versioned shared

?S: libraries (libfoo.so.x.y) are to be ignored (because they

?S: cannot be linked against).

?S:.

?T:xxx yyy thislib thisdir libswanted libstyle

?D:libs="

?X:

?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,

?X: -lBSD, -lPW, and -lx only get used if there are unresolved

?X: routines at link time. Usually, these are backwards compatibility

?X: libraries, and may not be as reliable as the standard c library.

?X:

?X: The -lsocket -linet -lnsl order has been reported to be necessary

?X: for at least one SVR4 implementation.

?X: -lc must proceed -lucb or -lbsd for most Solaris applications.

?X: -lc\_s proceeds -lc so we pick up the shared library version,

if

?X: it is available.

?X:

?X: The ordering of c, posix, and cposix is a guess and almost

?X: certainly wrong on about half of all systems.

?X:

?X: Set proper libswanted in your private Myinit.U if needed.

?X:

?X:: default ordered library list

?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'

?X:libswanted="\$libswanted dld sun m c\_s c posix cposix ndir dir ucb"

?X:libswanted="\$libswanted bsd BSD PW x"

?X:

?INIT:: default library list

?INIT:libswanted="

?INIT:: some systems want to use only the non-versioned libso:s

?INIT:ignore\_versioned\_solibs="

?LINT:extern usecbacktrace

?LINT:extern libscheck

?LINT:extern p

?LINT:use uselongdouble

: Looking for optional libraries

echo " "

echo "Checking for optional libraries..." >&4

case "\$libs" in

```

'|") dflt=";;
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$susesocks" in
"$define") libswanted="$libswanted
socks5 socks5_sh" ;;
esac
case "$susecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$susequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
for thisdir in $libspath; do
xxx="
if test ! -f "$xxx" -a "$X$ignore_versioned_solibs" = "X"; then
xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p`
test -f "$xxx" && eval $libscheck
test -f "$xxx" && libstyle=shared
xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p`
test -f "$xxx" && eval $libscheck
test -f "$xxx" && libstyle=shared
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib.$so
test -f "$xxx" && eval $libscheck
test -f "$xxx" && libstyle=shared
fi
if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib$_a
test -f "$xxx"
&& eval $libscheck
test -f "$xxx" && libstyle=static
fi
if test ! -f "$xxx"; then

```

```

xxx=${thisdir}/${thislib}_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
if test ! -f "$xxx"; then
xxx=${thisdir}/lib${thislib}_s_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
$test -f "$xxx" && thislib=${thislib}_s
fi
if test ! -f "$xxx"; then
xxx=${thisdir}/Slib${thislib}_a
    $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
fi
if $test -f "$xxx"; then
case "$libstyle" in
shared) echo "Found -l${thislib} (shared)."; ;
static) echo "Found -l${thislib}."; ;
*) echo "Found -l${thislib} ($libstyle)."; ;
esac
case " $dflt " in
*" -l${thislib} "*) ;;
*) dflt="$dflt -l${thislib}"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|sed -e
"s%/$yyy\\\$%%"`
    case " $libsdirs " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
    ;;
esac
break
fi
done
if $test ! -f "$xxx"; then
    echo "No -l${thislib}."
fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;

```

```
esac
case "$dflt" in
'|') dflt='none';;
esac
```

\$cat <<EOM

In order to compile \$package on your machine, a number of libraries are usually needed. Include any other special libraries here as well. Say "none" for none. The default list is almost always right.  
EOM

```
echo " "
rp="What libraries to use?"
./myread
case "$ans" in
none) libs='';;
*) libs="$ans";;
esac
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/U/modified/libs.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 16:09:35 ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:24:31 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:07 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
```



?LINT: empty

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/longsize.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: d\_msgsnd.U,v \$

?RCS: Revision 3.0 1993/08/18 12:06:41 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_msgsnd: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_msgsnd:

?S: This variable conditionally defines the HAS\_MSGSND symbol, which

?S: indicates to the C program that the msgsnd() routine is available.

?S:.

?C:HAS\_MSGSND:

?C: This symbol, if defined, indicates that the msgsnd() routine is

?C: available to send a message into the message queue.

?C:.

?H:#\$d\_msgsnd

HAS\_MSGSND /\*\*/

?H:.

?LINT:set d\_msgsnd

: see if msgsnd exists

set msgsnd d\_msgsnd

eval \$inlibc

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/d\_msgsnd.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

```

?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0 1993/08/18 12:07:17 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
  see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
  echo "You have the full shm*(2) library." >&4
  val="$define"
else
  echo "You don't have the full shm*(2) library." >&4
  val="$undef"
fi
set d_shm
eval $setvar

Found in path(s):
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/dist/U/d_shm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```

?RCS:  
?RCS: Copyright (c) 1999, Andy Dougherty  
?RCS:  
?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?RCS:  
?RCS: \$Log: vendorscript.U,v \$  
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera  
?RCS: Initial revision  
?RCS:  
?MAKE:d\_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \  
vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:vendorscript:  
?S: This variable contains the eventual value of the VENDORSRIPT symbol.  
?S: It may have a ~ on the front.  
?S: The standard distribution will put nothing in this  
directory.  
?S: Vendors who distribute perl may wish to place additional  
?S: executable scripts in this directory with  
?S: MakeMaker Makefile.PL INSTALLDIRS=vendor  
?S: or equivalent. See INSTALL for details.  
?S:.  
?S:vendorscriptexp:  
?S: This variable is the ~name expanded version of vendorscript, so that you  
?S: may use it directly in Makefiles or shell scripts.  
?S:.  
?D:installvendorscript="  
?S:installvendorscript:  
?S: This variable is really the same as vendorscriptexp but may differ on  
?S: those systems using AFS. For extra portability, only this variable  
?S: should be used in makefiles.  
?S:.  
?S:d\_vendorscript:  
?S: This variable conditionally defines PERL\_VENDORSRIPT.  
?S:.  
?C:PERL\_VENDORSRIPT:  
?C: If defined, this symbol contains the name of a directory  
?C: for holding vendor-supplied executable scripts.  
?C: It may have a ~ on the front.  
?C: The standard distribution will put nothing in this directory.  
?C: Vendors who distribute perl may wish to place additional  
?C: executable

```

scripts in this directory with
?C: MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent. See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript" /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp" /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
") d_vendorscript="$undef"
  vendorscript="
  vendorscriptexp="
  ;;
*) d_vendorscript="$define"
  : determine where vendor-supplied scripts go.
  case "$vendorscript" in
  ") dflt=$vendorprefix/script
    $test -d $dflt || dflt=$vendorbin ;;
  *) dflt="$vendorscript" ;;
  esac
$cat <<EOM

```

The installation process will create a directory for vendor-supplied scripts.

```

EOM
fn=d~+
rp='Pathname for the vendor-supplied scripts directory?'
./getfile
vendorscript="$ans"
vendorscriptexp="$ansexp"
;;
esac
prefixvar=vendorscript
./installprefix

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/installdirs/vendorscript.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp \$

?RCS:

?RCS: Copyright (c) 1991-1993, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,  
?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.

?RCS:

?RCS: \$Log: d\_safemcpy.U,v \$

?RCS: Revision 3.0.1.5 1997/02/28 15:41:12 ram

?RCS: patch61: improved overlapping copy check

?RCS: patch61: comfort them if they have memmove

?RCS: patch61: added ?F: metalint hint

?RCS:

?RCS: Revision 3.0.1.4 1995/07/25 13:58:46 ram

?RCS: patch56: re-arranged compile line to include ldflags before objects

?RCS:

?RCS: Revision 3.0.1.3 1995/03/21 08:47:26 ram

?RCS: patch52: swapped two first arguments of memcpy() calls

?RCS:

?RCS:

Revision 3.0.1.2 1994/10/29 16:15:10 ram

?RCS: patch36: added 'ldflags' to the test compile line (ADO)

?RCS:

?RCS: Revision 3.0.1.1 1994/05/06 14:53:12 ram

?RCS: patch23: ensure string is not optimized in read-only memory (ADO)

?RCS:

?RCS: Revision 3.0 1993/08/18 12:06:58 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:d\_safemcpy: Compile cat d\_memcpy rm\_try run \  
d\_memmove i\_memory i\_stdlib i\_string i\_unistd Oldconfig Setvar

?MAKE: -pick add \$@ %<

?S:d\_safemcpy:

?S: This variable conditionally defines the HAS\_SAFE\_MEMCPY symbol if  
?S: the memcpy() routine can do overlapping copies.

?S: For overlapping copies, memmove() should be used, if available.

?S:.

?C:HAS\_SAFE\_MEMCPY (SAFE\_MEMCPY):

?C: This symbol, if defined, indicates that the memcpy routine is available  
?C: to copy potentially overlapping memory blocks. If you need to  
?C: copy overlapping memory blocks, you should check HAS\_MEMMOVE and  
?C: use memmove() instead, if available.

?C:.

?H:\$d\_safemcpy HAS\_SAFE\_MEMCPY /\*\*/  
?H:.

```

?F:!try
?LINT:
  set d_safemcpy
: can memcpy handle overlapping blocks?
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
"$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#i_memory I_MEMORY
#i_stdlib I_STDLIB
#i_string I_STRING
#i_unistd I_UNISTD
EOCP
$cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
# include <memory.h>
#endif
#ifdef I_STDLIB
# include <stdlib.h>
#endif
#ifdef I_STRING
# include <string.h>
#else
# include <strings.h>
#endif
#ifdef I_UNISTD
# include <unistd.h> /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
   try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxy0123456789", 36);

for (align = 7; align >=

```

```

0; align--) {
for (len = 36; len; len--) {
b = buf+align;
memcpy(b, abc, len);
for (off = 1; off <= len; off++) {
memcpy(b+off, b, len);
memcpy(b, b+off, len);
if (memcmp(b, abc, len))
exit(1);
}
}
}
exit(0);
}

```

EOCP

```

set try
if eval $compile_ok; then
if $run ./try 2>/dev/null; then
echo "Yes, it can."
val="$define"
else
echo "It can't, sorry."
fi
else
echo "(I can't compile the test program, so we'll assume not...)"
fi
;;
esac
$rm_try
;;
esac
set d_safemcpy
eval $setvar

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/compline/d_safemcpy.U

```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:  
?RCS: \$Log: mansrc.U,v \$  
?RCS: Revision 3.0.1.9 1997/02/28 16:12:03 ram  
?RCS: patch61: don't ask for AFS when they choose to not install pages  
?RCS:  
?RCS: Revision 3.0.1.8 1995/09/25 09:16:58 ram  
?RCS: patch59: unit is now forced to the top of Configure, if possible  
?RCS:  
?RCS: Revision 3.0.1.7 1995/02/15 14:15:31 ram  
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)  
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)  
?RCS:  
?RCS: Revision  
3.0.1.6 1995/01/30 14:39:34 ram  
?RCS: patch49: can now handle installation prefix changes (from WED)  
?RCS:  
?RCS: Revision 3.0.1.5 1995/01/11 15:32:25 ram  
?RCS: patch45: can now use Loc variables since path stripping is deferred  
?RCS:  
?RCS: Revision 3.0.1.4 1994/08/29 16:30:38 ram  
?RCS: patch32: now uses installation prefix for default setting  
?RCS:  
?RCS: Revision 3.0.1.3 1994/05/06 15:11:10 ram  
?RCS: patch23: added lint hint, assuring that nroff is used  
?RCS:  
?RCS: Revision 3.0.1.2 1994/01/24 14:14:39 ram  
?RCS: patch16: now uses \_nroff in case user asked for portability  
?RCS:  
?RCS: Revision 3.0.1.1 1993/09/13 16:09:31 ram  
?RCS: patch10: allows for L1 man page extension (WAD)  
?RCS:  
?RCS: Revision 3.0 1993/08/18 12:09:14 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \  
sysman spackage test Getfile Prefixit prefixexp Prefixup  
?MAKE: -pick add \$@ %<  
?Y:TOP  
?S:mansrc:  
?S: This variable  
contains the name of the directory in which manual  
?S: source pages are to be put. It is the responsibility of the  
?S: Makefile.SH to get the value of this into the proper command.  
?S: You must be prepared to do the ~name expansion yourself.  
?S:.  
?S:mansrcexp:  
?S: This variable is the same as the mansrc variable, but is filename  
?S: expanded at configuration time, for convenient use in makefiles.



?S:.

?S:installmansrc:

?S: This variable is really the same as mansrcexp, unless you are using

?S: AFS in which case it points to the read/write location whereas

?S: mansrcexp only points to the read-only access location. For extra

?S: portability, you should only use this variable within your makefiles.

?S:.

?S:manext:

?S: This variable contains the extension that the manual page should

?S: have: one of 'n', 'l', or 'L'. The Makefile must supply the '.'.

?S: See mansrc.

?S:.

?T:lookpath

: determine where manual pages go

set mansrc mansrc none

eval \$prefixit

\$cat <<EOM

\$spackage has manual

pages available in source form.

EOM

case "\$nroff" in

nroff)

echo "However, you don't have nroff, so they're probably useless to you."

case "\$mansrc" in

") mansrc="none";;

esac;;

esac

echo "If you don't want the manual sources installed, answer 'none'."

case "\$mansrc" in

")

lookpath="\$prefixexp/share/man/man1 \$prefixexp/man/man1"

lookpath="\$lookpath \$prefixexp/man/u\_man/man1 \$prefixexp/man/l\_man/man1"

lookpath="\$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/man1"

lookpath="\$lookpath /usr/share/man/man1 /usr/local/share/man/man1"

lookpath="\$lookpath /usr/man/local/man1 /usr/man/l\_man/man1"

lookpath="\$lookpath /usr/local/man/u\_man/man1 /usr/local/man/l\_man/man1"

lookpath="\$lookpath /usr/man/man.L"

mansrc=`./loc . \$prefixexp/man/man1 \$lookpath`

if \$test -d "\$mansrc"; then

  dflt="\$mansrc"

else

  dflt="\$sysman"

fi

set dflt

eval \$prefixup

::

' ) dflt=none;;

```

*) dflt="$mansrc"
;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
./getfile
if test
"X$mansrcexp" != "X$ansexp"; then
installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
installmansrc="";;
esac
if $afs && $test "$mansrc"; then
$cat <<EOM

```

Since you are running AFS, I need to distinguish the directory in which manual pages reside from the directory in which they are installed (and from which they are presumably copied to the former directory by occult means).

```

EOM
case "$installmansrc" in
") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/#^';;
*) dflt="$installmansrc";;
esac
fn=de~
rp='Where will man pages be installed?'
./getfile
installmansrc="$ans"
else
installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*1) manext=1;;
*n) manext=n;;
*o) manext=1;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac

```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1-rc1/dist/U/mansrc.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: package.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: package.U,v \$

?RCS: Revision 3.0.1.3 1994/10/29 16:27:21 ram

?RCS: patch36: beware of non-ascii character sets when translating case

?RCS:

?RCS: Revision 3.0.1.2 1993/11/10 17:37:02 ram

?RCS: patch14: skip definition of spackage if not otherwise used

?RCS:

?RCS: Revision 3.0.1.1 1993/09/13 16:11:10 ram

?RCS: patch10: added package, suitable for starting sentences

?RCS:

?RCS: Revision 3.0 1993/08/18 12:09:28 ram

?RCS: Baseline for dist 3.0

netwide release.

?RCS:

?MAKE:package spackage: Nothing

?MAKE: -pick wipe \$@ %<

?S:package:

?S: This variable contains the name of the package being constructed.

?S: It is primarily intended for the use of later Configure units.

?S:.

?S:spackage:

?S: This variable contains the name of the package being constructed,

?S: with the first letter uppcased, i.e. suitable for starting

?S: sentences.

?S:.

?X: dist-4 has defined PACKAGE: here, which clashes with perl.y.h

?X: as package is a reserved keyword in perl

?T:first last

: set package name

package='<PACKAGENAME>'

@if spackage

first=`echo \$package | sed -e 's/^(.).\*\1/'`

```

last=`echo $package | sed -e 's/^\.(.*)\1/'
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"- "`echo AbyZ | tr '[:upper:]' '[:lower:]'
2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-
5.32.1~rc1/U/modified/package.U

```

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc

```

Found in path(s):

```

* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-

```

5.32.1~rc1/U/modified/d\_getpwent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: mkdep.U,v \$

?RCS: Revision 3.0.1.4 1997/02/28 16:13:07 ram

?RCS: patch61: replaced .o with \$\_o all over the place

?RCS:

?RCS: Revision 3.0.1.3 1994/10/29 16:25:02 ram

?RCS: patch36: added ?F: line for metalint file checking

?RCS:

?RCS: Revision 3.0.1.2 1994/01/24 14:15:12 ram

?RCS: patch16: cppflags is now an optional dependency

?RCS:

?RCS: Revision 3.0.1.1 1993/12/15 08:22:39 ram

?RCS: patch15: force zero exit status in all mkdep scripts

?RCS:

?RCS:

Revision 3.0 1993/08/18 12:09:16 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit generates the script 'mkdep' in the top-level directory.

?X: It is up to the makefile to use it for automatic dependencies

?X: generation (usage: 'mkdep [cppflags] -- \*.c').

?X:

?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \

Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc \_o

?MAKE: -pick add \$@ %<

?S:mkdep:

?S: This variable holds the name of a command to generate makefile

?S: dependencies on the standard output. It is the pathname of the

?S: generated mkdep script.

?S:.

?F:mkdep

?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c

: find out how to generate dependencies

echo " "

echo "Checking how to generate makefile dependencies on your machine..." >&4

```
?X: We are in the UU directory
toplev=`cd ../pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'
```

```
EOCP
takeflags='flags=""
case
"$@" in
*_-*)
for arg
do
shift
case "$arg" in
--) break;;
*) flags="$flags $arg";;
esac
done;;
esac'
case "$mkdep" in
")
;;
*)
if test -f "$mkdep" &&
$mkdep dep.c >dep.out 2>/dev/null &&
$contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
then
echo "$mkdep works."
```

?X: If they copied a config.sh from some other place, they'll have a working

?X: mkdep script probably, but not located at the top of the sources. And

?X: the Makefiles generated by jmake expect an mkdep script in the top dir.

```
case "$mkdep" in
"$pkgsrc/mkdep");;
*) echo "(copying it to $pkgsrc)"
cp $mkdep $pkgsrc/mkdep 2>/dev/null
if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
$contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
mkdep=$pkgsrc/mkdep
else
echo "Hmm... The copy failed or something... Guessing again..."
mkdep=
fi
;;
esac
else
```

```

mkdep=
fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
to pass source names one by one to cpp...
$spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
$cpp -M $cppflags \ $flags \ $srcfile 2>/dev/null
done
exit 0
EOM
mkdep=$toplev/mkdep
chmod +x $mkdep
$unicefix $mkdep
if $mkdep dep.c >dep.out 2>/dev/null &&
$contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
then
echo "Looks like we can use $cpp -M."
else
mkdep=
fi
;;
esac

case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
$spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
$cc -MM $cppflags \ $flags \ $srcfile 2>/dev/null
done
exit 0
EOM
mkdep=$toplev/mkdep
chmod +x $mkdep
$unicefix $mkdep
if $mkdep dep.c >dep.out 2>/dev/null &&

```

```

$contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
then
echo "Looks like we can use $cc -MM."
else
mkdep=
fi
;;
esac

case "$mkdep" in
")
?X: still no luck -- try something fancier.
$spitshell >./mkdep <<EOS
$startsh
$takeflags
for srcfile
do
case
"\$srcfile" in
*.c) c='.c';;
*.y) c='.y';;
*.l) c='.l';;
esac
filebase=\`basename \$srcfile \$c\`
<(\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \
$sed -e '/^# *[0-9]/!d' \
-e 's/^\.*"(.*)".*$/\$filebase'$_o: \1/' \
-e 's: \./: |' \
-e 's: *$: \$srcfile'| \
$grep -v '^#' | $sort | $uniq
done
exit 0
EOS
mkdep=$toplev/mkdep
chmod +x $mkdep
$unicefix $mkdep
if $mkdep dep.c >dep.out 2>/dev/null &&
$contains "dep$_o: *dep.h" dep.out >/dev/null 2>&1
then
echo "A shell script using $cpp does the trick."
else
echo "$cpp doesn't seem to be any use at all."
$spitshell >./mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift

```



```

inc='.'
while test $# -gt 0
do
case "$1" in
-I)
shift
inc="\$inc:$1"
;;
-I*)
dir=`echo $1 | sed -e 's/^-I//'\`
inc="\$inc:$dir"
;;
esac
shift
done
set X `ls $files`
shift
trap "rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
for srcfile
do
case "\$srcfile" in
*.c) c='.c';;
*.y) c='.y';;
*.l)
c='.l';;
esac
filebase=`basename \$srcfile \$c`\`
echo \$filebase$_o: \$srcfile
$grep '^#[ ]*include' \$srcfile /dev/null | \
$sed -n -e 's/#[ ]*include[ ]*// \\\`
-e '/<(.*)>/ d' \\\`
-e 's:[^"]*"([^\"]*)"*/: \1/' \\\`
-e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
IFS=' '
while read file dep; do
for dir in \$inc; do
if $test -f "\$dir/$dep"; then
dep="\$dir/$dep"
break
fi
done
echo "\$file: \$dep" | $sed -e 's: \./: ,'
done </tmp/mkdep\$\$
IFS=' '
rm -f /tmp/mkdep\$\$
done
exit 0

```

EOS

```
mkdep=$toplev/mkdep
chmod +x $mkdep
$eunicefix $mkdep
if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
then
  cat << EOM
```

I can use a script with grep instead, but it will make some incorrect dependencies, since it doesn't understand about conditional compilation. Moreover, some dependencies may be missing, because scanning won't be a recursive process.

If you have a program which generates makefile dependencies, you may want to use it. If not, you can use the script and edit the Makefile by hand if you need to.

EOM

```
else
  mkdep=
  cat << EOM
```

I can't seem to generate makefile dependencies at all! Perhaps you have a program that does? If you don't, you might look at the mkdep script to see if you can create one which works.

EOM

```
fi
fi
esac
echo " "
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out
```

Found in path(s):

```
* /opt/cola/permits/1907245759_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/dist/U/mkdep.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: d\_random\_r.U,v ORCS:

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?RCS:

```

?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
  usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
  symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
"$define")
  hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
  case "$d_random_r_proto:$usethreads" in
  ":define") d_random_r_proto=define
    set d_random_r_proto random_r $hdrs
    eval $hasproto ;;
  *) ;;
  esac
  case "$d_random_r_proto" in
  define)
    case "$random_r_proto" in
    "|0) try='int random_r(int*, struct random_data*);'
./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;

```

```

esac
case "$random_r_proto" in
"|0) try='int random_r(long*, struct random_data*);'
./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
esac
case "$random_r_proto" in
"|0)
try='int random_r(struct random_data*, int32_t*);'
./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
esac
case "$random_r_proto" in
"|0) d_random_r=undef
random_r_proto=0
echo "Disabling random_r, cannot determine prototype." >&4 ;;
*) case "$random_r_proto" in
REENTRANT_PROTO*) ;;
*) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
esac
echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
define) echo "random_r has no prototype, not using it." >&4 ;;
esac
d_random_r=undef
random_r_proto=0
;;
esac
;;
*) random_r_proto=0
;;
esac

```

Found in path(s):

\* /opt/cola/permits/1907245759\_1707613888.5758548/0/perl-5-32-1-orig-regen-configure-1-tar-gz/metaconfig-5.32.1~rc1/U/threads/d\_random\_r.U

## 1.515 glibc 2.31-13+deb11u8

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```

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```
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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# 1.517 tar 1.34+dfsg-1+deb11u1

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## 1.519 nghttp2 1.59.0-1

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## 1.520 python-setuptools 69.1.0

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# 1.522 Ilvm 17.0.6

## 1.522.1 Available under license :

; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:      // %bb.0:
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
# RUN: llc -O0 -mtriple=m68k -start-after=prologuepilog -verify-machineinstrs %s -o - | FileCheck %s
```

name: is-pcrel-register-operand-legal

body: |

bb.0.entry:

; CHECK: move.l (0,%pc,%a0), (%a1)

; CHECK: move.l (%a0), (0,%pc,%a1)

MOV32jk \$a1, 0, \$a0, implicit-def \$ccr

MOV32kj 0, \$a1, \$a0, implicit-def \$ccr

; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed:
```

```
; CHECK:      ; %bb.0:
```

```
; CHECK-NEXT:  sshll2.2d v4, v2, #0
```

```
; CHECK-NEXT:  sshll2.2d v5, v0, #0
```

```
; CHECK-NEXT:  sshll2.2d v6, v1, #0
```

```
; CHECK-NEXT:  sshll2.2d v7, v3, #0
```

```
; CHECK-NEXT:  sshll.2d v0, v0, #0
```

```
; CHECK-NEXT:  sshll.2d v16, v1, #0
```

```
; CHECK-NEXT:  sshll.2d v17, v2, #0
```

```
; CHECK-NEXT:  sshll.2d v18, v3, #0
```

```
; CHECK-NEXT:  scvtf.2d v1, v5, #6
```

```
; CHECK-NEXT:  scvtf.2d v0, v0, #6
```

```
; CHECK-NEXT:  scvtf.2d v3, v6, #6
```

```
; CHECK-NEXT:  scvtf.2d v2, v16, #6
```



```
; CHECK-NEXT:  scvtf.2d v5, v4, #6
; CHECK-NEXT:  scvtf.2d v4, v17, #6
; CHECK-NEXT:  scvtf.2d v7, v7, #6
; CHECK-NEXT:  scvtf.2d v6, v18, #6
; CHECK-NEXT:  ret
```

```
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}
```

; This one is small enough to satisfy isSimple, but still illegally large.

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
; CHECK:      ; %bb.0:
```

```
; CHECK-NEXT:  scvtf.2d v0, v0, #6
```

```
; CHECK-NEXT:  scvtf.2d v1, v1, #6
```

```
; CHECK-NEXT:  ret
```

```
%flt = sitofp <4 x i64> %in to <4 x double>
```

```
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
```

```
ret <4 x double> %res
```

```
}
```

; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-SKX
```

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-SKX,CHECK-SKX-VBMI
```

; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpadd

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
```

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
```

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
```

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
```

```
;
```

```
RUN: llc <%s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
```

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
```

```
; RUN: llc <%s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
```

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define dso_local void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: add256:  
; CHECK:    # %bb.0:  
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0  
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1  
; CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0  
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT:  
    vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq  
%d = load <16 x i32>, <16 x i32>* %a  
%e = load <16 x i32>, <16 x i32>* %b  
%f = add <16 x i32> %d, %e  
store <16 x i32> %f, <16 x i32>* %c  
ret void  
}
```

```
define dso_local void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {  
; CHECK-LABEL: add512:  
; CHECK:    # %bb.0:  
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT:  vpadd (%rsi), %zmm0, %zmm0  
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq  
%d = load <16 x i32>, <16 x i32>* %a  
%e = load <16 x i32>, <16 x i32>* %b  
%f = add <16 x i32> %d, %e  
store <16 x i32> %f, <16 x i32>* %c  
ret void  
}
```

```
define dso_local void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {  
; CHECK-LABEL: avg_v64i8_256:  
; CHECK:    # %bb.0:  
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0  
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1  
; CHECK-NEXT:  vpavgb (%rdi),  
    %ymm0, %ymm0  
; CHECK-NEXT:  vpavgb 32(%rdi), %ymm1, %ymm1
```



```
align 4
ret void
}
```

```
define dso_local void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
```

```
define dso_local void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32>
```

```

undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32
27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define dso_local void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-
vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define
dso_local void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-
vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define dso_local i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-

```

```

vector-width"="256" {
; CHECK-SKX-LABEL: _Z9test_charPcS_i_256:
; CHECK-SKX:    # %bb.0: # %entry
; CHECK-SKX-NEXT:  movl %edx, %eax
; CHECK-SKX-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:  xorl %ecx, %ecx
; CHECK-SKX-NEXT:  vpxor %xmm1, %xmm1, %xmm1
;
; CHECK-SKX-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-SKX-NEXT:  .p2align 4, 0x90
; CHECK-SKX-NEXT:  .LBB8_1: # %vector.body
; CHECK-SKX-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-SKX-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-SKX-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-SKX-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-SKX-NEXT:  vpadd %ymm2, %ymm3, %ymm2
; CHECK-SKX-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-SKX-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-SKX-NEXT:  vpadd %ymm1, %ymm3, %ymm1
; CHECK-SKX-NEXT:  addq $32, %rcx
; CHECK-SKX-NEXT:  cmpq %rcx, %rax
; CHECK-SKX-NEXT:  jne .LBB8_1
; CHECK-SKX-NEXT:  # %bb.2: # %middle.block
; CHECK-SKX-NEXT:  vpadd %ymm0, %ymm1, %ymm1
; CHECK-SKX-NEXT:  vpadd %ymm0, %ymm2, %ymm0
; CHECK-SKX-NEXT:  vpadd %ymm0, %ymm1, %ymm0
; CHECK-SKX-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:
;   vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-SKX-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:  vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:  vmovd %xmm0, %eax
; CHECK-SKX-NEXT:  vzeroupper
; CHECK-SKX-NEXT:  retq
;
; CHECK-AVX512-LABEL: _Z9test_charPcS_i_256:
; CHECK-AVX512:    # %bb.0: # %entry
; CHECK-AVX512-NEXT:  movl %edx, %eax
; CHECK-AVX512-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:  xorl %ecx, %ecx
; CHECK-AVX512-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-AVX512-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-AVX512-NEXT:  .p2align 4, 0x90
; CHECK-AVX512-NEXT:  .LBB8_1: # %vector.body
; CHECK-AVX512-NEXT:  # =>This Inner Loop Header: Depth=1

```

```

; CHECK-AVX512-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-AVX512-NEXT: vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-AVX512-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-AVX512-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-AVX512-NEXT: vpaddd %ymm2, %ymm3,
%ymm2
; CHECK-AVX512-NEXT: vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-AVX512-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpaddd %ymm1, %ymm3, %ymm1
; CHECK-AVX512-NEXT: addq $32, %rcx
; CHECK-AVX512-NEXT: cmpq %rcx, %rax
; CHECK-AVX512-NEXT: jne .LBB8_1
; CHECK-AVX512-NEXT: # %bb.2: # %middle.block
; CHECK-AVX512-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-AVX512-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpslufd {.*#+} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vmovd %xmm0, %eax
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: _Z9test_charPcS_i_256:
; CHECK-VBMI: # %bb.0: # %entry
; CHECK-VBMI-NEXT:
movl %edx, %eax
; CHECK-VBMI-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT: xorl %ecx, %ecx
; CHECK-VBMI-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-VBMI-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT: .p2align 4, 0x90
; CHECK-VBMI-NEXT: .LBB8_1: # %vector.body
; CHECK-VBMI-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-VBMI-NEXT: vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-VBMI-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-VBMI-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-VBMI-NEXT: vpaddd %ymm2, %ymm3, %ymm2
; CHECK-VBMI-NEXT: vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-VBMI-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpaddd %ymm1, %ymm3, %ymm1
; CHECK-VBMI-NEXT: addq $32, %rcx
; CHECK-VBMI-NEXT: cmpq %rcx, %rax
; CHECK-VBMI-NEXT: jne .LBB8_1

```

```

; CHECK-VBMI-NEXT: # %bb.2: # %middle.block
; CHECK-VBMI-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpaddd %ymm0, %ymm2,
%ymm0
; CHECK-VBMI-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-VBMI-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vmovd %xmm0, %eax
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq

```

entry:

```

%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x
i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf

```



```

%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```

define dso_local i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-
vector-width"="512" {

```

```

; CHECK-SKX-LABEL: _Z9test_charPcS_i_512:
; CHECK-SKX:      # %bb.0: # %entry
; CHECK-SKX-NEXT:  movl %edx, %eax
; CHECK-SKX-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:  xorl %ecx,
%ecx
; CHECK-SKX-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-SKX-NEXT:  .p2align 4, 0x90
; CHECK-SKX-NEXT:  .LBB9_1: # %vector.body
; CHECK-SKX-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-SKX-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-SKX-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-SKX-NEXT:  vpadd %zmm1, %zmm2, %zmm1
; CHECK-SKX-NEXT:  addq $32, %rcx
; CHECK-SKX-NEXT:  cmpq %rcx, %rax
; CHECK-SKX-NEXT:  jne .LBB9_1
; CHECK-SKX-NEXT:  # %bb.2: # %middle.block
; CHECK-SKX-NEXT:  vpadd %zmm0, %zmm1, %zmm0
; CHECK-SKX-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-SKX-NEXT:  vpadd %zmm1, %zmm0, %zmm0
; CHECK-SKX-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-SKX-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:  vpsrlq $32, %xmm0, %xmm1

```

```

; CHECK-SKX-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:
    vmovd %xmm0, %eax
; CHECK-SKX-NEXT:  vzeroupper
; CHECK-SKX-NEXT:  retq
;
; CHECK-AVX512-LABEL: _Z9test_charPcS_i_512:
; CHECK-AVX512:    # %bb.0: # %entry
; CHECK-AVX512-NEXT:  movl %edx, %eax
; CHECK-AVX512-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:  xorl %ecx, %ecx
; CHECK-AVX512-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-AVX512-NEXT:  .p2align 4, 0x90
; CHECK-AVX512-NEXT: .LBB9_1: # %vector.body
; CHECK-AVX512-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-AVX512-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-AVX512-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT: vpaddd %zmm1, %zmm2, %zmm1
; CHECK-AVX512-NEXT: addq $32, %rcx
; CHECK-AVX512-NEXT: cmpq %rcx, %rax
; CHECK-AVX512-NEXT: jne .LBB9_1
; CHECK-AVX512-NEXT: # %bb.2: # %middle.block
; CHECK-AVX512-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-AVX512-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-AVX512-NEXT: vpaddd
    %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpslufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vmovd %xmm0, %eax
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: _Z9test_charPcS_i_512:
; CHECK-VBMI:    # %bb.0: # %entry
; CHECK-VBMI-NEXT:  movl %edx, %eax
; CHECK-VBMI-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT:  xorl %ecx, %ecx
; CHECK-VBMI-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-VBMI-NEXT:  .p2align 4, 0x90
; CHECK-VBMI-NEXT: .LBB9_1: # %vector.body
; CHECK-VBMI-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-VBMI-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3

```

```

; CHECK-VBMI-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
;
CHECK-VBMI-NEXT: vpaddd %zmm1, %zmm2, %zmm1
; CHECK-VBMI-NEXT: addq $32, %rcx
; CHECK-VBMI-NEXT: cmpq %rcx, %rax
; CHECK-VBMI-NEXT: jne .LBB9_1
; CHECK-VBMI-NEXT: # %bb.2: # %middle.block
; CHECK-VBMI-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-VBMI-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-VBMI-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vmovd %xmm0, %eax
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq

```

entry:

```

%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr
inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1

```

```

%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef,
<32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```

@a = dso_local global [1024 x i8]
zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16

```

```

define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-SKX-LABEL: sad_16i8_256:
; CHECK-SKX:      # %bb.0: # %entry
; CHECK-SKX-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-SKX-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-SKX-NEXT: .p2align 4, 0x90
; CHECK-SKX-NEXT: .LBB10_1: # %vector.body
; CHECK-SKX-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-SKX-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-SKX-NEXT: vpadd %ymm1, %ymm2, %ymm1
; CHECK-SKX-NEXT: addq $4, %rax
; CHECK-SKX-NEXT: jne .LBB10_1
; CHECK-SKX-NEXT: # %bb.2: # %middle.block
; CHECK-SKX-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-SKX-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[2,3,2,3]

```

```

; CHECK-SKX-NEXT:
    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:  vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:  vmovd %xmm0, %eax
; CHECK-SKX-NEXT:  vzeroupper
; CHECK-SKX-NEXT:  retq
;
; CHECK-AVX512-LABEL: sad_16i8_256:
; CHECK-AVX512:    # %bb.0: # %entry
; CHECK-AVX512-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-AVX512-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-AVX512-NEXT:  .p2align 4, 0x90
; CHECK-AVX512-NEXT: .LBB10_1: # %vector.body
; CHECK-AVX512-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-AVX512-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-AVX512-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-AVX512-NEXT: addq $4, %rax
; CHECK-AVX512-NEXT: jne .LBB10_1
; CHECK-AVX512-NEXT: # %bb.2: # %middle.block
; CHECK-AVX512-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vextracti128 $1, %ymm0, %xmm1
;
CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpslufd {.*#+} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vmovd %xmm0, %eax
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: sad_16i8_256:
; CHECK-VBMI:      # %bb.0: # %entry
; CHECK-VBMI-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-VBMI-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-VBMI-NEXT: .p2align 4, 0x90
; CHECK-VBMI-NEXT: .LBB10_1: # %vector.body
; CHECK-VBMI-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-VBMI-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-VBMI-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-VBMI-NEXT: addq $4, %rax
; CHECK-VBMI-NEXT: jne .LBB10_1
; CHECK-VBMI-NEXT: # %bb.2: # %middle.block

```

```

;
CHECK-VBMI-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-VBMI-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vmovd %xmm0, %eax
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1
= load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3

```

```

%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define dso_local i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-SKX-LABEL: sad_16i8_512:
; CHECK-SKX:      # %bb.0: # %entry
; CHECK-SKX-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:
    movq $-1024, %rax # imm = 0xFC00
; CHECK-SKX-NEXT: .p2align 4, 0x90
; CHECK-SKX-NEXT: .LBB11_1: # %vector.body
; CHECK-SKX-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-SKX-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-SKX-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-SKX-NEXT: addq $4, %rax
; CHECK-SKX-NEXT: jne .LBB11_1
; CHECK-SKX-NEXT: # %bb.2: # %middle.block
; CHECK-SKX-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-SKX-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-SKX-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT: vpslq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT: vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT: vmovd %xmm0, %eax
; CHECK-SKX-NEXT: vzeroupper
; CHECK-SKX-NEXT: retq
;
; CHECK-AVX512-LABEL: sad_16i8_512:
; CHECK-AVX512:
    # %bb.0: # %entry
; CHECK-AVX512-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-AVX512-NEXT: .p2align 4, 0x90
; CHECK-AVX512-NEXT: .LBB11_1: # %vector.body
; CHECK-AVX512-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-AVX512-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-AVX512-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-AVX512-NEXT: addq $4, %rax
; CHECK-AVX512-NEXT: jne .LBB11_1

```

```

; CHECK-AVX512-NEXT: # %bb.2: # %middle.block
; CHECK-AVX512-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-AVX512-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpsshuf {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:
    vmovd %xmm0, %eax
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: sad_16i8_512:
; CHECK-VBMI: # %bb.0: # %entry
; CHECK-VBMI-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-VBMI-NEXT: .p2align 4, 0x90
; CHECK-VBMI-NEXT: .LBB11_1: # %vector.body
; CHECK-VBMI-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-VBMI-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-VBMI-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-VBMI-NEXT: addq $4, %rax
; CHECK-VBMI-NEXT: jne .LBB11_1
; CHECK-VBMI-NEXT: # %bb.2: # %middle.block
; CHECK-VBMI-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-VBMI-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vpsshuf {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:
    vpsshuf {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT: vmovd %xmm0, %eax
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4

```



```

%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define dso_local void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:

```

```

    vzeroupper
; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define dso_local void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:        # %bb.0:
; CHECK-NEXT:   vpmovw2m %ymm0, %k0
; CHECK-NEXT:   vpmovm2d %k0, %zmm0
; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:   vmovaps %zmm0, (%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define dso_local void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:        # %bb.0:
; CHECK-NEXT:   vpmovw2m %ymm0, %k0
; CHECK-NEXT:   kshiftrw $8, %k0, %k1
; CHECK-NEXT:   vpmovm2d %k1, %ymm0
; CHECK-NEXT:
    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:   vpmovm2d %k0, %ymm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:   vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:   vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:   vmovaps %ymm3, (%rdi)
; CHECK-NEXT:   vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:   vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

```

```

define dso_local void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd
               %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
               %mask = icmp slt <16 x i16> %a, zeroinitializer
               %1 = sitofp <16 x i1> %mask to <16 x double>
               store <16 x double> %1, <16 x double>* %res
               ret void
}

```

```

define dso_local void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
               %mask = icmp slt <16 x i16> %a, zeroinitializer
               %1 = uitofp <16 x i1> %mask to <16 x float>
               store <16 x float> %1, <16 x float>* %res
               ret void
}

```

```

define dso_local void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0

```

```

; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define dso_local void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128
$1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define dso_local void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:
vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)

```

```

; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru,
<16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: test_16f32tosb_256:
; CHECK: # %bb.0:

```

```

; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:   vpmovd2m %ymm1, %k0
; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:   vpmovd2m %ymm1, %k1
; CHECK-NEXT:   kunpckbw %k0, %k1, %k1
; CHECK-NEXT:
    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:   retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:   vpmovd2m %zmm1, %k1
; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:   retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define dso_local void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-SKX-VBMI-LABEL: mul256:
; CHECK-SKX-VBMI:   # %bb.0:
; CHECK-SKX-VBMI-NEXT:   vmovdqa
(%rdi), %ymm0
; CHECK-SKX-VBMI-NEXT:   vmovdqa 32(%rdi), %ymm1
; CHECK-SKX-VBMI-NEXT:   vmovdqa (%rsi), %ymm2
; CHECK-SKX-VBMI-NEXT:   vmovdqa 32(%rsi), %ymm3
; CHECK-SKX-VBMI-NEXT:   vpunpckhbw {{.*#+}} %ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-SKX-VBMI-NEXT:   vpunpckhbw {{.*#+}} %ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-SKX-VBMI-NEXT:   vpmullw %ymm4, %ymm5, %ymm4
; CHECK-SKX-VBMI-NEXT:   vpunpcklbw {{.*#+}} %ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-SKX-VBMI-NEXT:   vpunpcklbw {{.*#+}} %ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-SKX-VBMI-NEXT:   vpmullw %ymm3, %ymm1, %ymm1
; CHECK-SKX-VBMI-NEXT:   vmovdqa {{.*#+}} %ymm3 =
[0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]

```

```

;
CHECK-SKX-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-SKX-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-SKX-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-SKX-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-SKX-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-SKX-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-SKX-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-SKX-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-SKX-VBMI-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-SKX-VBMI-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-SKX-VBMI-NEXT: vzeroupper
; CHECK-SKX-VBMI-NEXT: retq
;
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:
# %bb.0:
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vpbroadcastw {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
;
CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm2 =

```

```

ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:
    vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:      # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
;
CHECK-VBMI-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm3 =
[0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT:  vmovdqa %ymm0, (%rdx)
;
CHECK-VBMI-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

```



```

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

define dso_local void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-SKX-VBMI-LABEL: mul512:
; CHECK-SKX-VBMI:    # %bb.0:
; CHECK-SKX-VBMI-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-SKX-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-SKX-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-SKX-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;
; CHECK-SKX-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-SKX-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-SKX-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-SKX-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-SKX-VBMI-NEXT:  vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-SKX-VBMI-NEXT:  vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-SKX-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)
; CHECK-SKX-VBMI-NEXT:  vzeroupper
;
; CHECK-SKX-VBMI-NEXT:  retq
;
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:    # %bb.0:
; CHECK-AVX512-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vpbroadcastw {{.*#+}} zmm3 =

```



```

ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-
width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:  vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
%dst)
ret <4 x i32> %res
}
declare <4 x i32>
@llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
; CHECK-NEXT:  vpmovqd %ymm1, %xmm1
; CHECK-NEXT:  vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
; CHECK-NEXT:  vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi),
%ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqb %ymm3, %xmm3
; CHECK-NEXT:  vpmovqb %ymm2, %xmm2

```

```

; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpmovdb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
;
CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1

```

```

; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0
= xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm0
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm1
; CHECK-NEXT: vpackusdw %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
;
CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-SKX-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-SKX-VBMI: # %bb.0:
; CHECK-SKX-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-SKX-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-SKX-VBMI-NEXT: vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-SKX-VBMI-NEXT: retq

```



```
16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16
x i16>
ret <16 x i16> %c
}
```

```
define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-SKX-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-SKX-VBMI:    # %bb.0:
; CHECK-SKX-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-SKX-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-SKX-VBMI-NEXT:  vperm2b 32(%rdi), %ymm1, %ymm0
; CHECK-SKX-VBMI-NEXT:  retq
;
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:    # %bb.0:
; CHECK-AVX512-NEXT:  vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
;
CHECK-VBMI-NEXT:  vperm2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}
```

```
define dso_local void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-
width"="256" {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zer
o,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xm
m0[15],zero
; CHECK-NEXT:  vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:
```

```

    vpmovzxdq {{.*#+}} ymm2 =
xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:  vpmovzxdq {{.*#+}} ymm3 =
xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxdq {{.*#+}} ymm1 =
xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxbd {{.*#+}} ymm0 =
xmm0[0],zero,zero,zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zer
o,zero,zero,zero,xmm0[3],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>*
%y
ret void
}

```

```

define dso_local void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-
width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovsxbd %xmm0, %ymm1
; CHECK-NEXT: vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT: vpmovsxdq %xmm2, %ymm2
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT: vpmovsxdq %xmm3, %ymm3
; CHECK-NEXT: vpmovsxdq %xmm1, %ymm1
; CHECK-NEXT: vpmovsxbd %xmm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT: vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

```

```

define dso_local void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8
x i64>* %r) "min-legal-vector-width"="256"

```



```

{
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

```

```

define dso_local void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8
x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqd %ymm1,
%ymm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

```

```

define dso_local void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q,
<16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:    # %bb.0:

```

```

; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2,
(%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define dso_local void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>*
%q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>,
<16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} %ymm0 = %ymm0[0,2,1,3]

```

```

; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}

```

```

define dso_local void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq { {. *#+ } } ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
store <16 x i8> %f, <16 x i8>* %q
ret void
}

```

```

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK: # %bb.0:
; CHECK-NEXT: retq
ret <64 x i1> %x
}

```

```

define dso_local void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vmovdqa (%rdi), %ymm1

```

```

; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftrd $1, %k0, %k1
; CHECK-NEXT: kshiftrlq $63, %k0, %k2
; CHECK-NEXT: kshiftrq $62, %k2, %k2
; CHECK-NEXT: kshiftrlq $63, %k1, %k1
; CHECK-NEXT: kshiftrq $63, %k1, %k1
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1,
%k1
; CHECK-NEXT: kshiftrd $3, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $61, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-9, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $2, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $60, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-17, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $5, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $59, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $4, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
;
CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-129, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1

```

```

; CHECK-NEXT: kshiftrd $6, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $56, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $9, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $55, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-513, %rax # imm = 0xFDFD
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $8, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $54, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
;
CHECK-NEXT: movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $11, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $53, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $10, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $52, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $13, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $51, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $12, %k0, %k2
; CHECK-NEXT:
    kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $50, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1

```

```

; CHECK-NEXT:  movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $15, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFFEFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $17, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $47, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-131073, %rax # imm = 0xFFFDFFFF
;
CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $16, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $46, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-262145, %rax # imm = 0xFFFBFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $19, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $45, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $18, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $44, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $21, %k0, %k2
; CHECK-NEXT:  kshiftrlq $63, %k2, %k2

```

```

; CHECK-NEXT:
    kshiftrq $43, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-2097153, %rax # imm = 0xFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $20, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $42, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-4194305, %rax # imm = 0xFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $23, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $41, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8388609, %rax # imm = 0xFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $22, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $40, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16777217, %rax # imm = 0xFEFFFFFFF
; CHECK-NEXT: kmovq
    %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $25, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $39, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33554433, %rax # imm = 0xFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $24, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $38, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-67108865, %rax # imm = 0xFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $27, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $37, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-134217729, %rax # imm = 0xF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2

```

```

; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $26, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq
$36, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $29, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $35, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $28, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $34, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $31, %k0, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $33, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:
kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k2
; CHECK-NEXT: vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT: kshiftrd $30, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k0, %k0
; CHECK-NEXT: kshiftrq $32, %k0, %k0
; CHECK-NEXT: korq %k0, %k2, %k0
; CHECK-NEXT: movabsq $-4294967297, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $1, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $31, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8589934593, %rax # imm = 0xFFFFFFFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k2
; CHECK-NEXT: kshiftrq $30, %k2, %k2

```



```

; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $3, %k1, %k2
; CHECK-NEXT:
    kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $29, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $2, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $28, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $5, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $27, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $4, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $26, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
;
CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFFBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $7, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $25, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $6, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $24, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0

```

```

; CHECK-NEXT: kshiftrd $9, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $23, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2199023255553, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
;
CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $8, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $22, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4398046511105, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $11, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $21, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $10, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $20, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $13, %k1, %k2
; CHECK-NEXT: kshiftrlq
$63, %k2, %k2
; CHECK-NEXT: kshiftrq $19, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $12, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $18, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $15, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $17, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0

```

```

; CHECK-NEXT: movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $14, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $16, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT:
    movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $17, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $15, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-562949953421313, %rax # imm = 0xFFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $16, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $14, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1125899906842625, %rax # imm = 0xFFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $19, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $13, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq
    %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $18, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $12, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $21, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $11, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $20, %k1, %k2

```

```

; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $10, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $23, %k1, %k2
;
CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $9, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $22, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $8, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $25, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $7, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $24, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $6, %k2, %k2
; CHECK-NEXT:
korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $27, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $5, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $26, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $4, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF

```

```

; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $29, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $3, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2305843009213693953, %rax # imm =
0xDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $28, %k1, %k2
; CHECK-NEXT: kshiftrlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $2, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $31, %k1, %k2
; CHECK-NEXT: kshiftrlq $62, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $30, %k1, %k1
; CHECK-NEXT: kshiftrlq $1, %k0, %k0
; CHECK-NEXT: kshiftrq $1, %k0, %k0
; CHECK-NEXT: kshiftrlq $63, %k1, %k1
; CHECK-NEXT: korq %k1, %k0, %k1
; CHECK-NEXT: vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT: kshiftrq $32, %k1, %k1
; CHECK-NEXT: vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector
<64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11,
i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32
27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40,
i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32
56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = dso_local global i64 0, align 8
@mem64_src = dso_local global i64 0, align 8
define dso_local i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:

```

```

; CHECK:    # %bb.0:
; CHECK-NEXT:  kmovq mem64_src(%rip),
%k0
; CHECK-NEXT:  #APP
; CHECK-NEXT:  #NO_APP
; CHECK-NEXT:  kmovq %k0, mem64_dst(%rip)
; CHECK-NEXT:  movl -{[0-9]+}(%rsp), %eax
; CHECK-NEXT:  retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 @asm "", "=k,k,~{dirflag},~{fcsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

```

```

define dso_local void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-
vector-width"="256" {

```

```

; CHECK-LABEL: cmp_v8i64_sext:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:  vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext
= sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

```

```

define dso_local void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-
vector-width"="256" {

```

```

; CHECK-LABEL: cmp_v8i64_zext:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:  vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:  vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT:  vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)

```

```

; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
;
CHECK: # %bb.0:
; CHECK-NEXT: vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: vpunpckhbw {{.*#+}} xmm2 =
xmm1[8],xmm2[8],xmm1[9],xmm2[9],xmm1[10],xmm2[10],xmm1[11],xmm2[11],xmm1[12],xmm2[12],xmm1[13
],xmm2[13],xmm1[14],xmm2[14],xmm1[15],xmm2[15]
; CHECK-NEXT: vpunpckhbw {{.*#+}} xmm3 = xmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15]
; CHECK-NEXT: vpsllvw %xmm2, %xmm3, %xmm2
; CHECK-NEXT: vpsrlw $8, %xmm2, %xmm2
; CHECK-NEXT: vpunpcklbw {{.*#+}} xmm0 = xmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7]
; CHECK-NEXT: vpmovzxbw {{.*#+}} xmm1 =
xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zer
o
; CHECK-NEXT: vpsllvw %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsrlw $8, %xmm0, %xmm0
; CHECK-NEXT: vpackuswb %xmm2, %xmm0, %xmm0
; CHECK-NEXT: retq
%b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8,
i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm1, %ymm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm1[8],ymm2[8],ymm1[9],ymm2[9],ymm1[10],ymm2[10],ymm1[11],ymm2[11],ymm1[12],ymm2[12],ymm1[13
],ymm2[13],ymm1[14],ymm2[14],ymm1[15],ymm2[15],ymm1[24],ymm2[24],ymm1[25],ymm2[25],ymm1[26],ym
m2[26],ymm1[27],ymm2[27],ymm1[28],ymm2[28],ymm1[29],ymm2[29],ymm1[30],ymm2[30],ymm1[31],ymm2[

```





```

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: constant_rotate_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm1 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:  vpsllvw {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %ymm1, %ymm1
; CHECK-NEXT:  vpsrlw $8, %ymm1, %ymm1
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:  vpsllvw {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %ymm0, %ymm0
; CHECK-NEXT:  vpsrlw $8, %ymm0, %ymm0
; CHECK-NEXT:  vpackuswb %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  retq
%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8
1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8
8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1>
%lshr = lshr <32 x i8> %a, <i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8,
i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

```

```

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT:  vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT:  vpternlogq $216, {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %ymm1, %ymm0
; CHECK-NEXT:  retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

```

```

define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT:  vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT:  vpternlogq $216, {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %ymm1, %ymm0
; CHECK-NEXT:  vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm0, %ymm0
; CHECK-NEXT:  retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>

```



```

; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{{^@+}}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align
32
; TUNIT-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5:[0-9]+]]
; TUNIT-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6:[0-9]+]]
; TUNIT-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT: ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{{^@+}}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CGSCC-SAME: (ptr nocapture
nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) #[[ATTR0]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5:[0-9]+]]
; CGSCC-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6:[0-9]+]]
; CGSCC-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void
@llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote

```

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg, ptr
readonly %arg1) #1 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1:[0-9]+]] {
; CHECK-NEXT: bb:
; CHECK-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT: store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: [[TMP:%.*]] = load <8 x
i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg) #1 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr noalias nocapture
nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; TUNIT-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT: ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR1]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32

```

```

; CGSCC-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64)
[[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr
%arg, ptr readonly %arg1) #1 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1]] {
; CHECK-NEXT: bb:
; CHECK-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT: store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg) #0 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind

```

```

willreturn memory(argmem: readwrite) uwtable
; TUNIT-LABEL: define {{{^@+}}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6]]
; TUNIT-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:
ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{{^@+}}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR0]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT:
[[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg, ptr

```

```

readonly %arg1) #0 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]],
<8 x i64> [[TMP0:%.*]]) #[[ATTR0]] {
; CHECK-NEXT: bb:
; CHECK-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT: store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg) #1 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: call void @llvm.memset.p0.i64(ptr
noalias nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP]], i8 noundef 0, i64
noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6]]
; TUNIT-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT: ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR1]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT:

```

```

[[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64>
[[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr
%tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %arg, ptr
readonly %arg1) #1 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{{^@}+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], ptr noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR1]] {
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]], align 64
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %arg) #2 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable

```



```

; TUNIT-LABEL: define {{{^@+}}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nfree writeonly [[ARG:%.*]]) #[[ATTR2:[0-9]+]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:  [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:  call void @llvm.memset.p0.i64(ptr noalias nocapture nfree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
noalias nocapture nfree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], ptr noalias
nocapture nfree noundef nonnull readonly align 64 dereferenceable(64)
[[TMP]]) #[[ATTR6]]
; TUNIT-NEXT:  [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT:  store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:  ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nfree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{{^@+}}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nfree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR2:[0-9]+]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:  [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:  call void @llvm.memset.p0.i64(ptr noalias nocapture nfree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
noalias
nocapture nfree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], ptr noalias nocapture
nfree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
; CGSCC-NEXT:  [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT:  store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg, ptr
readonly %arg1) #2 {
;
; CHECK: Function Attrs: inlinehint mustprogress nfree norecurse nosync nounwind willreturn memory(argmem:

```

```

readwrite) uwtable
;
CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], ptr noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR2:[0-9]+]] {
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]], align 64
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg) #1 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT:
[[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], ptr noalias
nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
; TUNIT-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT: ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
;
CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR1]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr

```

```

noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], ptr noalias
nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]] #[[ATTR6]]
; CGSCC-NEXT:  [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT:  store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>,
align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg, ptr readonly
%arg1) #3 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{{^@+}}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR3:[0-9]+]] {
; CHECK-NEXT: bb:
; CHECK-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT:  store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:  [[TMP:%.*]]
= load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:  store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg) #4 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{{^@+}}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32

```

```

; TUNIT-NEXT:  [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:  call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:  [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
;
; TUNIT-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr noalias
nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]
; TUNIT-NEXT:  [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT:  store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:  ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{{^@+}}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR3]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:  [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:  call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]],
i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:  [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr noalias
nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]
; CGSCC-NEXT:  [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; CGSCC-NEXT:  store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr
%arg, ptr readonly %arg1) #4 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{{^@+}}} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256

```

```

; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR3]] {
; CHECK-NEXT: bb:
; CHECK-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT: store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT: ret void
;
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg) #3 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{{^@+}}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]] {
; TUNIT-NEXT: bb:
; TUNIT-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr noalias
nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]
; TUNIT-NEXT: [[TRUETMP4:%.*]] = load <8 x i64>, ptr [[TRUETMP2]], align 64
; TUNIT-NEXT: store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT: ret void
;
;
; CGSCC: Function
Attr: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CGSCC-LABEL: define {{{^@+}}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR3]] {
; CGSCC-NEXT: bb:
; CGSCC-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: [[TRUETMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT: call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT: [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr noalias
nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TRUETMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]

```

```

; CGSCC-NEXT:  [[TRUETMP4:%.*]] = load <8 x i64>,
ptr [[TRUETMP2]], align 64
; CGSCC-NEXT:  store <8 x i64> [[TRUETMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0.i64(ptr nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
;
; TUNIT: attributes #[[ATTR0]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl" }
; TUNIT: attributes #[[ATTR1]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; TUNIT: attributes #[[ATTR2]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256"
"target-features"="+avx512vl" }
; TUNIT: attributes #[[ATTR3]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx2" }
; TUNIT: attributes #[[ATTR4:[0-9]+]] = { norecurse nofree nounwind willreturn memory(argmem: write) }
; TUNIT: attributes #[[ATTR5]] = { nofree willreturn memory(write) }
; TUNIT: attributes #[[ATTR6]] = { nofree nosync nounwind willreturn }
;
; CGSCC: attributes #[[ATTR0]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn

```

```

memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-
features"="+avx512vl" }
; CGSCC: attributes #[[ATTR1]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-
features"="+avx512vl" }
; CGSCC: attributes #[[ATTR2]]
= { inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
"min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; CGSCC: attributes #[[ATTR3]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-
features"="+avx2" }
; CGSCC: attributes #[[ATTR4:[0-9]+]] = { nocallback nofree nounwind willreturn memory(argmem: write) }
; CGSCC: attributes #[[ATTR5]] = { nofree willreturn memory(write) }
; CGSCC: attributes #[[ATTR6]] = { nofree nounwind willreturn }
;
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -march=amdgcn -mcpu=fiji < %s | FileCheck -enable-var-scope --check-prefixes=GCN,GCN-
SAFE,VI,VI-SAFE %s
; RUN: llc -enable-no-signed-zeros-fp-math -march=amdgcn -mcpu=fiji < %s | FileCheck -enable-var-scope --
check-prefixes=GCN,GCN-NSZ,VI,VI-NSZ %s

```

```

; -----
; rcp tests
; -----

```

```

define half @v_fneg_rcp_f16(half %a) #0 {
; GCN-LABEL: v_fneg_rcp_f16:
; GCN:      ; %bb.0:
; GCN-NEXT:  s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:  v_rcp_f16_e64 v0, -v0
; GCN-NEXT:  s_setpc_b64 s[30:31]
%rcp = call half @llvm.amdgcn.rcp.f16(half %a)
%fneg = fneg half %rcp
ret half %fneg
}

```

```

define half @v_fneg_rcp_fneg_f16(half %a) #0 {
; GCN-LABEL: v_fneg_rcp_fneg_f16:
; GCN:      ; %bb.0:
; GCN-NEXT:  s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:
    v_rcp_f16_e32 v0, v0
; GCN-NEXT:  s_setpc_b64 s[30:31]
%fneg.a = fneg half %a
%rcp = call half @llvm.amdgcn.rcp.f16(half %fneg.a)
%fneg = fneg half %rcp
ret half %fneg
}

```

```

define { half, half } @v_fneg_rcp_store_use_fneg_f16(half %a) #0 {
; GCN-LABEL: v_fneg_rcp_store_use_fneg_f16:
; GCN:      ; %bb.0:
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT: v_rcp_f16_e32 v2, v0
; GCN-NEXT: v_xor_b32_e32 v1, 0x8000, v0
; GCN-NEXT: v_mov_b32_e32 v0, v2
; GCN-NEXT: s_setpc_b64 s[30:31]
%fneg.a = fneg half %a
%rcp = call half @llvm.amdgcn.rcp.f16(half %fneg.a)
%fneg = fneg half %rcp
%insert.0 = insertvalue { half, half } poison, half %fneg, 0
%insert.1 = insertvalue { half, half } %insert.0, half %fneg.a, 1
ret { half, half } %insert.1
}

```

```

define { half, half } @v_fneg_rcp_multi_use_fneg_f16(half %a, half %c) #0 {
; GCN-LABEL: v_fneg_rcp_multi_use_fneg_f16:
; GCN:      ; %bb.0:
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:
    v_rcp_f16_e32 v2, v0
; GCN-NEXT: v_mul_f16_e64 v1, -v0, v1
; GCN-NEXT: v_mov_b32_e32 v0, v2
; GCN-NEXT: s_setpc_b64 s[30:31]
%fneg.a = fneg half %a
%rcp = call half @llvm.amdgcn.rcp.f16(half %fneg.a)
%fneg = fneg half %rcp
%use1 = fmul half %fneg.a, %c
%insert.0 = insertvalue { half, half } poison, half %fneg, 0
%insert.1 = insertvalue { half, half } %insert.0, half %use1, 1
ret { half, half } %insert.1
}

```

```

; -----
; sin tests
; -----

```

```

define half @v_fneg_amdgcn_sin_f16(half %a) #0 {
; GCN-LABEL: v_fneg_amdgcn_sin_f16:
; GCN:      ; %bb.0:
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT: v_sin_f16_e64 v0, -v0
; GCN-NEXT: s_setpc_b64 s[30:31]
%sin = call half @llvm.amdgcn.sin.f16(half %a)
%fneg = fneg half %sin
ret half %fneg

```



```

}

;-----
;
vintp tests
;-----

define { float, float } @v_fneg_interp_p1_f16(float %a, float %b) #0 {
; GCN-LABEL: v_fneg_interp_p1_f16:
; GCN:      ; %bb.0:
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT: v_mul_f32_e64 v1, v0, -v1
; GCN-NEXT: s_mov_b32 m0, 0
; GCN-NEXT: s_setreg_imm32_b32 hwreg(HW_REG_MODE, 2, 2), 3
; GCN-NEXT: v_interp_p1ll_f16 v0, v1, attr0.x
; GCN-NEXT: v_interp_p1ll_f16 v1, v1, attr0.y
; GCN-NEXT: s_setpc_b64 s[30:31]
%mul = fmul float %a, %b
%fneg = fneg float %mul
%intrap0 = call float @llvm.amdgcn.interp.p1.f16(float %fneg, i32 0, i32 0, i1 false, i32 0)
%intrap1 = call float @llvm.amdgcn.interp.p1.f16(float %fneg, i32 1, i32 0, i1 false, i32 0)
%insert.0 = insertvalue { float, float } poison, float %intrap0, 0
%insert.1 = insertvalue { float, float } %insert.0, float %intrap1, 1
ret { float, float } %insert.1
}

define
{ half, half } @v_fneg_interp_p2_f16(float %a, float %b) #0 {
; GCN-LABEL: v_fneg_interp_p2_f16:
; GCN:      ; %bb.0:
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT: v_mul_f32_e64 v1, v0, -v1
; GCN-NEXT: v_mov_b32_e32 v2, 4.0
; GCN-NEXT: s_mov_b32 m0, 0
; GCN-NEXT: s_setreg_imm32_b32 hwreg(HW_REG_MODE, 2, 2), 3
; GCN-NEXT: v_interp_p2_f16 v0, v1, attr0.x, v2
; GCN-NEXT: v_interp_p2_f16 v1, v1, attr0.y, v2
; GCN-NEXT: s_setpc_b64 s[30:31]
%mul = fmul float %a, %b
%fneg = fneg float %mul
%intrap0 = call half @llvm.amdgcn.interp.p2.f16(float 4.0, float %fneg, i32 0, i32 0, i1 false, i32 0)
%intrap1 = call half @llvm.amdgcn.interp.p2.f16(float 4.0, float %fneg, i32 1, i32 0, i1 false, i32 0)
%insert.0 = insertvalue { half, half } poison, half %intrap0, 0
%insert.1 = insertvalue { half, half } %insert.0, half %intrap1, 1
ret { half, half } %insert.1
}

;-----

```

```

;
arithmetic.fence tests
;-----

; FIXME: Legalization/promote is broken
define half @v_fneg_arithmetic_fence_f16(half %a) #0 {
; GCN-LABEL: v_fneg_arithmetic_fence_f16:
; GCN:      ;%bb.0:
; GCN-NEXT: ;ARITH_FENCE
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT: v_xor_b32_e32 v0, 0x8000, v0
; GCN-NEXT: s_setpc_b64 s[30:31]
% fence = call half @llvm.arithmetic.fence.f16(half %a)
% fneg = fneg half % fence
ret half % fneg
}

define half @v_fneg_arithmetic_fence_fmula_f16(half %a, half %b) #0 {
; GCN-LABEL: v_fneg_arithmetic_fence_fmula_f16:
; GCN:      ;%bb.0:
; GCN-NEXT: s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT: v_mul_f16_e32 v0, v0, v1
; GCN-NEXT: ;ARITH_FENCE
; GCN-NEXT: v_xor_b32_e32 v0, 0x8000, v0
; GCN-NEXT: s_setpc_b64 s[30:31]
% mul = fmul half %a, %b
% fence = call half @llvm.arithmetic.fence.f16(half %mul)
% fneg = fneg half % fence
ret half % fneg
}

declare
half @llvm.amdgcn.rcp.f16(half) #1
declare half @llvm.amdgcn.sin.f16(half) #1
declare half @llvm.arithmetic.fence.f16(half) #1
declare float @llvm.amdgcn.interp.p1.f16(float, i32, i32, i1, i32) #0
declare half @llvm.amdgcn.interp.p2.f16(float, float, i32, i32, i1, i32) #0

attributes #0 = { nounwind "denormal-fp-math-f32"="preserve-sign,preserve-sign" }
attributes #1 = { nounwind readnone }
attributes #2 = { nounwind "unsafe-fp-math"="true" }
attributes #3 = { nounwind "no-signed-zeros-fp-math"="true" }
attributes #4 = { nounwind "amdgpu-ieee"="false" "denormal-fp-math-f32"="preserve-sign,preserve-sign" }
;; NOTE: These prefixes are unused and the list is autogenerated. Do not add tests below this line:
; GCN-NSZ: {{.*}}
; GCN-SAFE: {{.*}}
; VI: {{.*}}
; VI-NSZ: {{.*}}

```

```

; VI-SAFE: {{.*}}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -march=amdgc n -mcpu=fiji < %s | FileCheck -check-prefixes=VI %s

; FIXME: This one should fold to rcp
define half @select_fneg_posk_src_rcp_f16(i32 %c, half %x, half %y) {
; VI-LABEL: select_fneg_posk_src_rcp_f16:
; VI:      ; %bb.0:
; VI-NEXT:  s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; VI-NEXT:  v_rcp_f16_e64 v1, -v1
; VI-NEXT:  v_mov_b32_e32 v2, 0x4000
; VI-NEXT:  v_cmp_eq_u32_e32 vcc, 0, v0
; VI-NEXT:  v_cndmask_b32_e32 v0, v2, v1, vcc
; VI-NEXT:  s_setpc_b64 s[30:31]
%cmp = icmp eq i32 %c, 0
%rcp = call half @llvm.amdgc n.rcp.f16(half %x)
%fneg = fneg half %rcp
%select = select i1 %cmp, half %fneg, half 2.0
ret half %select
}

declare half @llvm.amdgc n.rcp.f16(half) #0

attributes #0 = { nocallback n ofree nosync nounwind speculatable willreturn memory(none) }
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:      # %bb.0:
; CHECK-NEXT:  pushq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  subq $32, %rsp
; CHECK-NEXT:  .cfi_def_cfa_offset 48
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movaps %xmm1, {[[-0-9]+]}(%r{[sb]})p) # 16-byte Spill
; CHECK-NEXT:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  callq __gttf2@PLT
; CHECK-NEXT:  movl %eax, %ebx
; CHECK-NEXT:  movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:  movaps {[[-0-9]+]}(%r{[sb]})p),

```

```

%xmm1 # 16-byte Reload
; CHECK-NEXT: callq __subtf3@PLT
; CHECK-NEXT: testl %ebx, %ebx
; CHECK-NEXT: jg .LBB0_2
; CHECK-NEXT: # %bb.1:
; CHECK-NEXT: xorps %xmm0, %xmm0
; CHECK-NEXT: .LBB0_2:
; CHECK-NEXT: addq $32, %rsp
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: popq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
}

```

```

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {{\?.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

```

```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK: # %bb.0:
; CHECK-NEXT: andps {{\?.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm1
; CHECK-NEXT: andps {{\?.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm0
; CHECK-NEXT:
    orps %xmm1, %xmm0
; CHECK-NEXT: retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

```

```

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: movaps %xmm0, %xmm1
; CHECK-NEXT: callq __multf3@PLT
; CHECK-NEXT: xorps {{\?.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm0
; CHECK-NEXT: popq %rax

```

```
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
}
```

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*/  
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --include-generated-funcs  
; RUN: opt -S -passes=verify,iroutliner -ir-outlining-no-cost < %s | FileCheck %s  
  
; This test checks that we do outline indirect calls when it is not specified  
; that we should not.  
  
declare void @f1(ptr, ptr);  
declare void @f2(ptr, ptr);  
  
define void @function1(ptr %func) {  
entry:  
%a = alloca i32, align 4  
%b = alloca i32, align 4
```

```

%c = alloca i32, align 4
store i32 2, ptr %a, align 4
store i32 3, ptr %b, align 4
store i32 4, ptr %c, align 4
call void %func()
%al = load i32, ptr %a
%bl = load i32, ptr %b
%cl = load i32, ptr %c
ret void
}

define void @function2(ptr %func) {
entry:
%a = alloca i32, align 4
%b = alloca i32, align 4
%c = alloca i32, align 4
store i32 2, ptr %a, align 4
store i32 3, ptr %b, align 4
store i32 4, ptr %c, align 4
call void %func()
%al = load i32, ptr %a
%bl = load i32, ptr %b
%cl = load i32, ptr %c
ret void
}
;
CHECK-LABEL: @function1(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4
; CHECK-NEXT: call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]], ptr [[FUNC:%.*]])
; CHECK-NEXT: ret void
;
;
; CHECK-LABEL: @function2(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4
; CHECK-NEXT: call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]], ptr [[FUNC:%.*]])
; CHECK-NEXT: ret void
;
;
; CHECK-LABEL: define internal void @outlined_ir_func_0(
; CHECK-NEXT: newFuncRoot:
; CHECK-NEXT: br label [[ENTRY_TO_OUTLINE:%.*]]
; CHECK: entry_to_outline:

```

```
; CHECK-NEXT: store i32 2, ptr [[TMP0:%.*]], align 4
; CHECK-NEXT: store i32 3, ptr [[TMP1:%.*]], align 4
; CHECK-NEXT: store i32 4, ptr [[TMP2:%.*]], align 4
; CHECK-NEXT:
  call void [[TMP3:%.*]]()
; CHECK-NEXT: [[AL:%.*]] = load i32, ptr [[TMP0]], align 4
; CHECK-NEXT: [[BL:%.*]] = load i32, ptr [[TMP1]], align 4
; CHECK-NEXT: [[CL:%.*]] = load i32, ptr [[TMP2]], align 4
; CHECK-NEXT: br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
; CHECK: entry_after_outline.exitStub:
; CHECK-NEXT: ret void
;
```

---

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```
; RUN: opt -passes=consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"
```

```
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to ptr
; CHECK-NEXT: %1 = load volatile i8, ptr %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to ptr
; CHECK-NEXT: %3 = load volatile i8, ptr %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to ptr
; CHECK-NEXT: %5 = load volatile
i8, ptr %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to ptr
; CHECK-NEXT: %7 = load volatile i8, ptr %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to ptr
; CHECK-NEXT: %9 = load volatile i8, ptr %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to ptr
; CHECK-NEXT: store i8 %9, ptr %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to ptr
; CHECK-NEXT: store i8 %7, ptr %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to ptr
; CHECK-NEXT: store i8 %5, ptr %12
```

```

; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to ptr
; CHECK-NEXT: store i8 %3, ptr %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to ptr
; CHECK-NEXT: store ptr %14, ptr @goo

```

```
@goo = global ptr undef
```

```

define void @foo_i8() {
entry:
%0 = load volatile i8, ptr inttoptr (i32 805874688 to ptr)
%1 = load volatile
i8, ptr inttoptr (i32 805874692 to ptr)
%2 = load volatile i8, ptr inttoptr (i32 805874719 to ptr)
%3 = load volatile i8, ptr inttoptr (i32 805874720 to ptr)
%4 = load volatile i8, ptr inttoptr (i32 805874727 to ptr)
store i8 %4, ptr inttoptr(i32 805873688 to ptr)
store i8 %3, ptr inttoptr(i32 805873719 to ptr)
store i8 %2, ptr inttoptr(i32 805873720 to ptr)
store i8 %1, ptr inttoptr(i32 805873727 to ptr)
store ptr inttoptr(i32 805874800 to ptr), ptr @goo
ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to ptr
; CHECK-NEXT: %1 = load volatile i16, ptr %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to ptr
; CHECK-NEXT: %3 = load volatile i16, ptr %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add
i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to ptr
; CHECK-NEXT: %5 = load volatile i16, ptr %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to ptr
; CHECK-NEXT: %7 = load volatile i16, ptr %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to ptr
; CHECK-NEXT: %9 = load volatile i16, ptr %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to ptr
; CHECK-NEXT: %11 = load volatile i16, ptr %10, align 2

```

```
define void @foo_i16() {
```

entry:

```
%0 = load volatile i16, ptr inttoptr (i32 805874688 to ptr), align 2
%1 = load volatile i16, ptr inttoptr (i32 805874692 to ptr), align 2
%2 = load volatile i16, ptr inttoptr (i32 805874720 to ptr), align 2
%3 = load volatile i16, ptr inttoptr (i32 805874750 to ptr), align 2
%4 = load volatile i16, ptr inttoptr (i32 805874752 to ptr), align 2
%5 = load volatile i16, ptr inttoptr (i32 805874774 to ptr), align
2
ret void
}
```

; Check that for i32 type, the maximum legal offset is 124.

; CHECK: foo\_i32

; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32

; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32

; CHECK: %0 = inttoptr i32 %[[C2]] to ptr

; CHECK-NEXT: %1 = load volatile i32, ptr %0, align 4

; CHECK-NEXT: %[[M1:const\_mat[0-9]?]] = add i32 %[[C2]], 4

; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to ptr

; CHECK-NEXT: %3 = load volatile i32, ptr %2, align 4

; CHECK-NEXT: %[[M2:const\_mat[0-9]?]] = add i32 %[[C2]], 124

; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to ptr

; CHECK-NEXT: %5 = load volatile i32, ptr %4, align 4

; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to ptr

; CHECK-NEXT: %7 = load volatile i32, ptr %6, align 4

; CHECK-NEXT: %[[M3:const\_mat[0-9]?]] = add i32 %[[C1]], 8

; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to ptr

; CHECK-NEXT: %9 = load volatile i32, ptr %8, align 4

; CHECK-NEXT: %[[M4:const\_mat[0-9]?]] = add i32 %[[C1]], 12

; CHECK-NEXT: %10 = inttoptr

i32 %[[M4]] to ptr

; CHECK-NEXT: %11 = load volatile i32, ptr %10, align 4

define void @foo\_i32() {

entry:

```
%0 = load volatile i32, ptr inttoptr (i32 805874688 to ptr), align 4
```

```
%1 = load volatile i32, ptr inttoptr (i32 805874692 to ptr), align 4
```

```
%2 = load volatile i32, ptr inttoptr (i32 805874812 to ptr), align 4
```

```
%3 = load volatile i32, ptr inttoptr (i32 805874816 to ptr), align 4
```

```
%4 = load volatile i32, ptr inttoptr (i32 805874824 to ptr), align 4
```

```
%5 = load volatile i32, ptr inttoptr (i32 805874828 to ptr), align 4
```

```
ret void
```

```
}
```

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s

;

; Test that early if conversion produces LOCR with operands of the right

; register classes.



```

define void @autogen_SD4739(ptr) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, ptr %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:                                ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:                                ; preds = %CF248, %CF246
store i8 %S1163, ptr %0
br label %CF248
}
; RUN: llc -march=hexagon -hexagon-hvx-widen=32 <%s | FileCheck %s

; Truncating a type-to-be-widened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

target datalayout = "e-m:e-p:32:32:32-a:0-n16:32-i64:64:64-i32:32:32-i16:16:16-i1:8:8-f32:32:32-f64:64:64-
v32:32:32-v64:64:64-v512:512:512-v1024:1024:1024-v2048:2048:2048"
target triple = "hexagon"

define dlllexport void @f0(ptr %a0) local_unnamed_addr #0 {
b0:
%v0 = load i8, ptr undef, align 1
%v1 = zext i8 %v0 to i16
%v2 = add i16 0, %v1
%v3 = icmp sgt i16 %v2, 1
%v4 = select i1 %v3, i16 %v2, i16 1
%v5 = udiv i16 -32768, %v4
%v6 = zext i16 %v5 to i32
%v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
%v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitializer
%v9 = load <8 x i16>, ptr undef, align 2
%v10 = sext <8 x i16> %v9 to <8 x i32>
%v11 = mul nsw <8 x i32> %v8, %v10
%v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32 16384,
i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
%v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
%v14 = trunc <8 x i32> %v13 to <8 x i8>
%v15 = getelementptr inbounds i8, ptr %a0, i32 undef
store <8 x i8> %v14, ptr %v15, align 1
ret void
}

```

```
attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
```

; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

```
target triple = "hexagon"
```

```
%struct.0 = type { ptr, i8, %union.anon.0 }
%union.anon.0 = type { ptr }
```

```
define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph
```

```
while.body.lr.ph:                ; preds = %entry
br label %while.body
```

```
while.body:                        ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi ptr [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
]
```

```
sw.bb.i:                            ; preds = %while.body
unreachable
```

```
sw.bb3.i:                            ; preds = %while.body
unreachable
```

```
exit:
                                ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]
```

```
sw.bb.i17:                          ; preds = %exit
%0 = load i32, ptr %lsr.iv, align 4
unreachable
```

```
sw.bb3.i20:                          ; preds = %exit
%1 = load ptr, ptr %lsr.iv, align 4
unreachable
```

```
exit.2:                                ; preds = %exit
%cgep22 = getelementptr %struct.0, ptr %lstr.iv, i32 1
br label %while.body
```

```
while.end:                              ; preds = %entry
ret void
}
```

```
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

```
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --include-generated-funcs
```

```
; RUN: opt -S -passes=verify,iroutliner -ir-outlining-no-cost < %s | FileCheck %s
```

```
; This test checks that debug info is recognized as able to be extracted along
; with the other instructions, but is not included in the consolidated function.
```

```
define void @function1() !dbg !6 {
entry:
  %a = alloca i32, align 4, !dbg !17
  call void @llvm.dbg.value(metadata ptr %a, metadata !9, metadata !DIExpression()), !dbg !17
  %b = alloca i32, align 4, !dbg !18
  call void @llvm.dbg.value(metadata ptr %b, metadata !11, metadata !DIExpression()), !dbg !18
  %c = alloca i32, align 4, !dbg !19
  call void @llvm.dbg.value(metadata ptr %c, metadata !12, metadata !DIExpression()), !dbg !19
  store i32 2, ptr %a, align 4, !dbg !20
  store i32 3, ptr %b, align 4, !dbg !21
  store i32 4, ptr %c, align 4, !dbg !22
  %al = load i32, ptr %a, align 4, !dbg !23
  call void @llvm.dbg.value(metadata i32 %al,
  metadata !13, metadata !DIExpression()), !dbg !23
  %bl = load i32, ptr %b, align 4, !dbg !24
  call void @llvm.dbg.value(metadata i32 %bl, metadata !15, metadata !DIExpression()), !dbg !24
  %cl = load i32, ptr %c, align 4, !dbg !25
  call void @llvm.dbg.value(metadata i32 %cl, metadata !16, metadata !DIExpression()), !dbg !25
  ret void, !dbg !26
}
```

```
define void @function2() !dbg !27 {
entry:
  %a = alloca i32, align 4, !dbg !35
  call void @llvm.dbg.value(metadata ptr %a, metadata !29, metadata !DIExpression()), !dbg !35
  %b = alloca i32, align 4, !dbg !36
  call void @llvm.dbg.value(metadata ptr %b, metadata !30, metadata !DIExpression()), !dbg !36
  %c = alloca i32, align 4, !dbg !37
  call void @llvm.dbg.value(metadata ptr %c, metadata !31, metadata !DIExpression()), !dbg !37
  store i32 2, ptr %a, align 4, !dbg !38
  store i32 3, ptr %b, align 4, !dbg !39
```

```

store i32 4, ptr %c, align 4, !dbg !40
%al = load i32, ptr %a, align 4, !dbg !41
call void @llvm.dbg.value(metadata
i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
%bl = load i32, ptr %b, align 4, !dbg !42
call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
%cl = load i32, ptr %c, align 4, !dbg !43
call void @llvm.dbg.value(metadata i32 %cl, metadata !34, metadata !DIExpression()), !dbg !43
ret void, !dbg !44
}

```

```

; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

```

```

attributes #0 = { nounwind readnone speculatable willreturn }

```

```

!llvm.dbg.cu = !{!0}
!llvm.debugify = !{!3, !4}
!llvm.module.flags = !{!5}

```

```

!0 = distinct !DICompileUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true,
runtimeVersion: 0, emissionKind: FullDebug, enums: !2)

```

```

!1 = !DIFile(filename: "legal-debug.ll", directory: "")

```

```

!2 = !{}

```

```

!3 = !{i32 20}

```

```

!4 = !{i32 12}

```

```

!5 = !{i32 2, !"Debug Info Version", i32 3}

```

```

!6 = distinct !DISubprogram(name: "function1", linkageName: "function1", scope:
null, file: !1, line: 1, type: !7, scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0,
retainedNodes: !8)

```

```

!7 = !DISubroutineType(types: !2)

```

```

!8 = !{!9, !11, !12, !13, !15, !16}

```

```

!9 = !DILocalVariable(name: "1", scope: !6, file: !1, line: 1, type: !10)

```

```

!10 = !DIBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)

```

```

!11 = !DILocalVariable(name: "2", scope: !6, file: !1, line: 2, type: !10)

```

```

!12 = !DILocalVariable(name: "3", scope: !6, file: !1, line: 3, type: !10)

```

```

!13 = !DILocalVariable(name: "4", scope: !6, file: !1, line: 7, type: !14)

```

```

!14 = !DIBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)

```

```

!15 = !DILocalVariable(name: "5", scope: !6, file: !1, line: 8, type: !14)

```

```

!16 = !DILocalVariable(name: "6", scope: !6, file: !1, line: 9, type: !14)

```

```

!17 = !DILocation(line: 1, column: 1, scope: !6)

```

```

!18 = !DILocation(line: 2, column: 1, scope: !6)

```

```

!19 = !DILocation(line: 3, column: 1, scope: !6)

```

```

!20 = !DILocation(line: 4, column: 1, scope: !6)

```

```

!21 = !DILocation(line:

```

```

5, column: 1, scope: !6)

```

```

!22 = !DILocation(line: 6, column: 1, scope: !6)

```

```

!23 = !DILocation(line: 7, column: 1, scope: !6)
!24 = !DILocation(line: 8, column: 1, scope: !6)
!25 = !DILocation(line: 9, column: 1, scope: !6)
!26 = !DILocation(line: 10, column: 1, scope: !6)
!27 = distinct !DISubprogram(name: "function2", linkageName: "function2", scope: null, file: !1, line: 11, type: !7,
scopeLine: 11, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !28)
!28 = !{!29, !30, !31, !32, !33, !34}
!29 = !DILocalVariable(name: "7", scope: !27, file: !1, line: 11, type: !10)
!30 = !DILocalVariable(name: "8", scope: !27, file: !1, line: 12, type: !10)
!31 = !DILocalVariable(name: "9", scope: !27, file: !1, line: 13, type: !10)
!32 = !DILocalVariable(name: "10", scope: !27, file: !1, line: 17, type: !14)
!33 = !DILocalVariable(name: "11", scope: !27, file: !1, line: 18, type: !14)
!34 = !DILocalVariable(name: "12", scope: !27, file: !1, line: 19, type: !14)
!35 = !DILocation(line:
  11, column: 1, scope: !27)
!36 = !DILocation(line: 12, column: 1, scope: !27)
!37 = !DILocation(line: 13, column: 1, scope: !27)
!38 = !DILocation(line: 14, column: 1, scope: !27)
!39 = !DILocation(line: 15, column: 1, scope: !27)
!40 = !DILocation(line: 16, column: 1, scope: !27)
!41 = !DILocation(line: 17, column: 1, scope: !27)
!42 = !DILocation(line: 18, column: 1, scope: !27)
!43 = !DILocation(line: 19, column: 1, scope: !27)
!44 = !DILocation(line: 20, column: 1, scope: !27)
; CHECK-LABEL: @function1(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, !dbg [[DBG17:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata ptr [[A]], metadata [[META9:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG17]]
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, !dbg [[DBG18:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata ptr [[B]], metadata [[META11:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG18]]
; CHECK-NEXT: [[C:%.*]] = alloca
i32, align 4, !dbg [[DBG19:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata ptr [[C]], metadata [[META12:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG19]]
; CHECK-NEXT: call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]]), !dbg [[DBG20:![0-9]+]]
; CHECK-NEXT: ret void, !dbg [[DBG21:![0-9]+]]
;
;
; CHECK-LABEL: @function2(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, !dbg [[DBG30:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata ptr [[A]], metadata [[META24:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG30]]
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, !dbg [[DBG31:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata ptr [[B]], metadata [[META25:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG31]]

```

```

; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4, !dbg [[DBG32:![0-9]+]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata ptr [[C]], metadata [[META26:![0-9]+]], metadata
!DIExpression()), !dbg [[DBG32]]
;
CHECK-NEXT: call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]], !dbg [[DBG33:![0-9]+]]
; CHECK-NEXT: ret void, !dbg [[DBG34:![0-9]+]]
;
;
; CHECK: @outlined_ir_func_0(ptr [[TMP0:%.*]], ptr [[TMP1:%.*]], ptr [[TMP2:%.*]])
; CHECK: entry_to_outline:
; CHECK-NEXT: store i32 2, ptr [[TMP0]], align 4
; CHECK-NEXT: store i32 3, ptr [[TMP1]], align 4
; CHECK-NEXT: store i32 4, ptr [[TMP2]], align 4
; CHECK-NEXT: [[AL:%.*]] = load i32, ptr [[TMP0]], align 4
; CHECK-NEXT: [[BL:%.*]] = load i32, ptr [[TMP1]], align 4
; CHECK-NEXT: [[CL:%.*]] = load i32, ptr [[TMP2]], align 4
; CHECK-NEXT: br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
;
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx2 | FileCheck %s --check-prefixes=VEC256,AVX
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,AVX512VL256
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=AVX512VL512
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,SKX256
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=SKX512

define
void @zext256("min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost

```

```

Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction:
%E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated
cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>

```

```
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}
```

```
define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %B = zext <8 x i32>
undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost
of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8
x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
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; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16
x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found
an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to

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<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef
to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext256'
; SKX256-NEXT: Cost Model: Found an
estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost
Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x

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i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512("min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found
an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost

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of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost
Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8>
undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'trunc256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>

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; VEC256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x
i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
;
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to
<8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to
<8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef
to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to
<16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to
<32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x
i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>

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%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; AVX-NEXT:
Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x
i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef
to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef
to <8 x i64>

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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL256-NEXT:  
 Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

;

; AVX512VL512-LABEL: 'zext256\_vXi1'

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef

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to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef
to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1>
undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8
= zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to
<4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
;
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
%V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i16 = zext <32 x i1> undef to

```



<32 x i16>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef  
;  
; SKX512-LABEL: 'zext256\_vXi1'  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

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; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32
x i8>
; SKX512-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>

%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>

%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1()
"min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = sext <8 x i1> undef to <8 x
i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>

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; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

;

; AVX512VL256-LABEL: 'sext256\_vXi1'

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction:

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%V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1>
undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to
<4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1>
undef to <16 x i8>
;
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1>
undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated
cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1>
undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 =

```

```

sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to
<4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT:
Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = sext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8

```

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8  
= sext <2 x i1> undef to <2 x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x  
i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x  
i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16  
x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32  
x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = sext <64 x i1> undef to <64  
x i8>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef  
;  
; SKX512-LABEL: 'sext256\_vXi1'  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x  
i64>  
; SKX512-NEXT: Cost Model: Found an estimated  
cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x  
i64>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x  
i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x  
i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x  
i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to  
<16 x i32>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x  
i16>  
; SKX512-NEXT: Cost Model:  
Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x  
i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to  
<16 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to  
<32 x i16>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x  
i8>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x  
i8>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x

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i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16
x i8>
;
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64
x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>

%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2
x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x
i1>

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```

; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64
= trunc <64 x i64> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i32 = trunc <16 x i32> undef to <16
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x
i1>
; AVX-NEXT: Cost Model: Found an
estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32
x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to
<64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x
i1>
;
AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x
i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64>

```



```

undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>
; AVX512VL256-NEXT:
  Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = trunc <16 x i32>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found
  an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef
to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated
  cost of 17 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>

```

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64>  
undef to <4 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64>  
undef to <8 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>  
undef to <16 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>  
undef to <32 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost  
of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>  
undef to <2 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>  
undef to <4 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>  
undef to <8 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32>  
undef to <16 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32>  
undef to <32 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>  
undef to <64 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>  
undef to <2 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction:  
%V4i16 = trunc <4 x i16> undef to <4 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>  
undef to <8 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16>  
undef to <16 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16>  
undef to <32 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16>  
undef to <64 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef  
to <2 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef  
to <4 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef  
to <8 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 =  
trunc <16 x i8> undef to <16 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8>  
undef to <32 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8>  
undef to <64 x i1>  
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef  
;

; SKX256-LABEL: 'trunc\_vXi1'  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>  
;  
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to

<32 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef  
;  
; SKX512-LABEL: 'trunc\_vXi1'  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>  
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>

```

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to
<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc
<16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}
; RUN: opt < %s -passes=argpromotion -S | FileCheck %s

; CHECK-LABEL: define i32 @foo() #0 {
; CHECK-NEXT:     %.val = load <32 x half>, ptr undef, align 4
; CHECK-NEXT:     call void @bar(<32 x half> %.val)
; CHECK-NEXT:     ret i32 0
; CHECK-NEXT: }

; CHECK-LABEL: define internal void @bar(<32 x half> %.0.val) #0 {

```

```
; CHECK-NEXT:    ret void
; CHECK-NEXT:    }

; CHECK:    attributes #0 = { uwtable "min-legal-vector-width"="512" }
```

```
define i32 @foo() #0 {
  call void @bar(ptr undef)
  ret i32 0
}
```

```
define internal void @bar(ptr) #0 {
  %2 = load <32 x half>, ptr %0, align 4
  ret void
}
```

```
attributes #0 = { uwtable "min-legal-vector-width"="0" }
```

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```
; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s
```

```
; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked  
; as Legal.
```

```
; Verify that fptosi(42.1) isn't simplified when the rounding mode is  
; unknown.  
; Verify that no gross errors happen.  
; CHECK-LABEL: @f20  
; COMMON: cfdetsiz  
define i32 @f20(double %a) strictfp {  
entry:  
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,  
    metadata !"fpexcept.strict")  
    strictfp  
ret i32 %result  
}
```

```
@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"  
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)  
; RUN: opt %s -passes=inline -S | FileCheck %s
```

```
define internal void @innerSmall() "min-legal-vector-width"="128" {  
  ret void  
}
```

```
define internal void @innerLarge() "min-legal-vector-width"="512" {  
  ret void  
}
```

```
define internal void @innerNoAttribute() {  
  ret void  
}
```

; We should not add an attribute during inlining. No attribute means unknown.

; Inlining doesn't change the fact that we don't know anything about this

; function.

```
define void @outerNoAttribute() {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
  call void @innerLarge()  
  ret void  
}
```

```
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
  call void @innerSmall()  
  ret void  
}
```

; We should remove the attribute after inlining since the callee's

; vector width requirements are unknown.

```
define void @outerAttribute() "min-legal-vector-width"="128" {  
  call void @innerNoAttribute()  
  ret void  
}
```

; CHECK: define void @outerNoAttribute()  
{

{

; CHECK: define void @outerConflictingAttributeSmall() #0

; CHECK: define void @outerConflictingAttributeLarge() #0

; CHECK: define void @outerAttribute() {

; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

LLVM System Interface Library

-----  
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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -passes=sanitize-masked-mem-intrin -S < %s | FileCheck %s

; Testing that masked scatters operating on scalable vectors that are  
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked\_scatter\_nxv4i32(

; CHECK: call void @llvm.masked.scatter.nxv4i32

```
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x ptr> %ptrs, <vscale x 4 x i1>
%mask) {
  call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x ptr> %ptrs, i32 0, <vscale x 4 x
i1> %mask)
  ret void
}
```

; Testing that masked scatters operating on scalable vectors of FP  
; data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked\_scatter\_nxv2f64(

; CHECK: call void @llvm.masked.scatter.nxv2f64

```
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x ptr> %ptrs, <vscale x 2 x i1>
%mask) {
  call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x ptr> %ptrs,
i32 0, <vscale x 2 x i1> %mask)
  ret void
}
```

; Testing that masked scatters operating on scalable vectors of FP  
; data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked\_scatter\_nxv2f16(

; CHECK: call void @llvm.masked.scatter.nxv2f16

```
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x ptr> %ptrs, <vscale x 2 x i1>
%mask) {
  call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x ptr> %ptrs, i32 0, <vscale x 2 x
i1> %mask)
  ret void
}
```

; Testing that masked scatters operating on 64-bit fixed vectors are  
; scalarized because NEON doesn't have support for masked scatter  
; instructions.

; CHECK-LABEL: @masked\_scatter\_v2f32(

; CHECK-NOT: @llvm.masked.scatter.v2f32(

```
define void @masked_scatter_v2f32(<2 x float> %data, <2 x ptr> %ptrs, <2 x i1> %mask) {
  call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x ptr> %ptrs, i32 0, <2 x i1> %mask)
  ret void
}
```

```

}

; Testing that masked scatters operating on 128-bit
fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x ptr> %ptrs, <4 x i1> %masks) {
    call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x ptr> %ptrs, i32 0, <4 x i1> %masks)
    ret void
}

declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x ptr> %ptrs, i32 %align,
<vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x ptr> %ptrs, i32 %align,
<vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x ptr> %ptrs, i32 %align,
<vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x ptr> %ptrs, i32 %align, <2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x
ptr> %ptrs, i32 %align, <4 x i1> %masks)
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %arg, ptr
readonly %arg1) #0 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT: ret void
;
bb:
    %tmp = load <8 x i64>, ptr %arg1
    store <8 x i64> %tmp, ptr %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %arg) #0 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512

```



```

; CHECK-SAME:
(ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define
internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg, ptr readonly
%arg1) #1 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg) #1 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT: call fastcc

```

```

void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr [[TMP2]], <8 x i64>
[[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg, ptr
readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]],
ptr [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg) #0 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32

```

```

%tmp2 = alloca <8 x i64>, align
32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

```

; This should promote

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg, ptr
readonly %arg1) #0 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg) #1 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:
bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

```

```

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
  %arg, ptr readonly %arg1) #1 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], ptr readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], ptr [[ARG]]
; CHECK-NEXT: ret void
;
bb:
  %tmp = load <8 x i64>, ptr %arg1
  store <8 x i64> %tmp, ptr %arg
  ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %arg) #2 {
; CHECK-LABEL: define {{{^@+}}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
  [[TMP2]], ptr [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
  %tmp4 = load <8 x i64>, ptr %tmp2, align 32
  store <8 x i64> %tmp4, ptr %arg, align 2
  ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg, ptr
  readonly %arg1) #2 {
; CHECK-LABEL: define {{{^@+}}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], ptr readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]]
; CHECK-NEXT: store <8 x i64>

```

```

[[TMP]], ptr [[ARG]]
; CHECK-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg) #1 {
; CHECK-LABEL: define {{{^@}+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:  call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr
[[TMP2]], ptr [[TMP]])
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64
32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg, ptr readonly
%arg1) #3 {
; CHECK-LABEL: define {{{^@}+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT:  store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT:  ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

```

```

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg) #4 {
; CHECK-LABEL: define {{^[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:
[[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg, ptr readonly
%arg1) #4 {
;
CHECK-LABEL: define {{^[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, ptr %arg1
store <8 x i64> %tmp, ptr %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg) #3 {
; CHECK-LABEL: define {{^[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)

```

```

; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:  [[TMP4:%.*]] = load
<8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %tmp2, ptr %tmp)
%tmp4 = load <8 x i64>, ptr %tmp2, align 32
store <8 x i64> %tmp4, ptr %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %X, ptr %Y)
#2 {
; CHECK-LABEL: define
{{{^@+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:  [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:  ret i32 [[C]]
;
%A = load i32, ptr %X
%B = load i32, ptr %Y
%C = add i32 %A, %B
ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
%B) #2 {
; CHECK-LABEL: define {{{^@+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[B:%.*]])
; CHECK-NEXT:  [[A:%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, ptr [[A]]
; CHECK-NEXT:  [[A_VAL:%.*]] = load i32, ptr [[A]]
; CHECK-NEXT:  [[B_VAL:%.*]] = load i32, ptr [[B]]
; CHECK-NEXT:  [[C:%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, ptr %A
%C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %A, ptr %B)

```

```

ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %X, ptr %Y)
#2 {
; CHECK-LABEL: define
{{{^@+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]],
i32 [[Y_VAL:%.*]])
; CHECK-NEXT:  [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:  ret i32 [[C]]
;
%A = load i32, ptr %X
%B = load i32, ptr %Y
%C = add i32 %A, %B
ret i32 %C
}

```

```

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %B) #2 {
; CHECK-LABEL: define {{{^@+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr [[B:%.*]])
; CHECK-NEXT:  [[A:%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, ptr [[A]]
; CHECK-NEXT:  [[A_VAL:%.*]] = load i32, ptr [[A]]
; CHECK-NEXT:  [[B_VAL:%.*]] = load i32, ptr [[B]]
; CHECK-NEXT:  [[C:%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, ptr %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %A, ptr %B)
ret i32 %C
}

```

```

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0.i64(ptr
nocapture writeonly, i8, i64, i1) #5

```

```

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }

```



```

attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
static_library("BSD-Archive") {
output_name = "lldbPluginObjectContainerBSDArchive"
configs += [ "//llvm/utils/gn/build:lldb_code" ]
deps = [
  "//lldb/source/Core",
  "//lldb/source/Host",
  "//lldb/source/Symbol",
  "//llvm/lib/Support",
]
sources = [ "ObjectContainerBSDArchive.cpp" ]
}
; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -passes=sve-scalarize-masked-mem-intrin -S < %s | FileCheck %s

```

; Testing that masked gathers operating on scalable vectors that are  
packed in SVE registers are not scalarized.

```

; CHECK-LABEL: @masked_gather_nxv4i32(
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x ptr> %ld, <vscale x 4 x i1> %masks, <vscale x 4
x i32> %passthru) {
  %res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x ptr> %ld, i32 0, <vscale x 4 x i1>
%.masks, <vscale x 4 x i32> %passthru)
  ret <vscale x 4 x i32> %res
}

```

; Testing that masked gathers operating on scalable vectors of FP data  
that is packed in SVE registers are not scalarized.

```

; CHECK-LABEL: @masked_gather_nxv2f64(
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x ptr> %ld, <vscale x 2 x i1> %masks, <vscale
x 2 x double> %passthru)
{
  %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x ptr> %ld, i32 0, <vscale x 2 x i1>
%.masks, <vscale x 2 x double> %passthru)
  ret <vscale x 2 x double> %res
}

```

; Testing that masked gathers operating on scalable vectors of FP data  
that is unpacked in SVE registers are not scalarized.

```

; CHECK-LABEL: @masked_gather_nxv2f16(
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x ptr> %ld, <vscale x 2 x i1> %masks, <vscale x
2 x half> %passthru) {

```

```

%res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x ptr> %ld, i32 0, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
ret <vscale x 2 x half> %res
}

```

```

; Testing that masked gathers operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions.

```

```

; CHECK-LABEL: @masked_gather_v2f32(
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2
x ptr> %ld, <2 x i1> %masks, <2 x float> %passthru) {
%res = call <2 x float> @llvm.masked.gather.v2f32(<2 x ptr> %ld, i32 0, <2 x i1> %masks, <2 x float> %passthru)
ret <2 x float> %res
}

```

```

; Testing that masked gathers operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions and because we are not targeting fixed width SVE.

```

```

; CHECK-LABEL: @masked_gather_v4i32(
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x ptr> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
%res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x ptr> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
ret <4 x i32> %res
}

```

```

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x ptr> %ptrs, i32 %align, <vscale x 4 x i1>
%masks, <vscale x 4 x i32> %passthru)
declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x ptr> %ptrs, i32 %align, <vscale x 2 x
i1> %masks, <vscale x 2 x double>
%passthru)
declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x ptr> %ptrs, i32 %align, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
declare <2 x float> @llvm.masked.gather.v2f32(<2 x ptr> %ptrs, i32 %align, <2 x i1> %masks, <2 x float>
%passthru)
declare <4 x i32> @llvm.masked.gather.v4i32(<4 x ptr> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32> %passthru)

```

## 1.523 jvm-hotspot-amazon 1.8.0u402

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## xwd v1.0.7

### xwd utility

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```
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page\_title: 'Commands: license'

description: |

The license command is used to interact with an enterprise license.

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- [`license get`][`get`] - Get the current license from a server
- [`license inspect`][`inspect`] - Inspect and validate a license

[`get`]: /nomad/docs/commands/license/get 'Get the current license from a server'

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```
import (  
    "fmt"  
    "strings"  
    "time"  
  
    "github.com/hashicorp/nomad/api"  
    "github.com/mitchellh/cli"  
)  
  
var _ cli.Command = &LicenseCommand{ }  
  
type LicenseCommand struct {  
    Meta  
}  
  
func (l *LicenseCommand) Help() string {
```

```
helpText := `
Usage: nomad license <subcommand> [options] [args]
```

This command has subcommands for managing the Nomad Enterprise license.  
For more detailed examples see:  
<https://developer.hashicorp.com/nomad/docs/commands/license>

Retrieve the server's license:

```
$ nomad license get

`

return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
now := time.Now()
expired := resp.License.ExpirationTime.Before(now)
terminated
:= resp.License.TerminationTime.Before(now)
outputLicenseInfo(ui, resp.License, expired, terminated)
if expired {
return 1
}
return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired, terminated bool) {
expStr := ""
if expired {
expStr = fmt.Sprintf("Expired At%s", lic.ExpirationTime.String())
} else {
expStr = fmt.Sprintf("Expires At%s", lic.ExpirationTime.String())
}
termStr := ""
if terminated {
termStr = fmt.Sprintf("Terminated At%s", lic.TerminationTime.String())
} else {
```

```
termStr = fmt.Sprintf("Terminates At%s", lic.TerminationTime.String())
}
```

```
validity := "valid"
if expired {
    validity = "expired!"
}
output := []string{
    fmt.Sprintf("Product%s", lic.Product),
    fmt.Sprintf("License Status%s", validity),
    fmt.Sprintf("License ID%s", lic.LicenseID),
    fmt.Sprintf("Customer ID%s", lic.CustomerID),
    fmt.Sprintf("Issued At%s", lic.IssueTime),
    expStr,
    termStr,
    fmt.Sprintf("Datacenter%s", lic.InstallationID),
}
ui.Output(formatKV(output))
```

```
if
len(lic.Modules) > 0 {
    ui.Output("Modules:")
    for _, mod := range lic.Modules {
        ui.Output(fmt.Sprintf("\t%s", mod))
    }
}
if len(lic.Features) > 0 {
    ui.Output("Licensed Features:")
    for _, f := range lic.Features {
        ui.Output(fmt.Sprintf("\t%s", f))
    }
}
}
```

---

layout: docs

page\_title: Nomad Enterprise Licensing

description: >-

Learn about how Nomad Enterprise licensing works.

---

### ## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in the cluster must have a license to start. Nomad Enterprise can be downloaded from the [releases site].

Click [here](<https://www.hashicorp.com/go/nomad-enterprise>) to set up a demo of Nomad Enterprise or [here](</nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license>)

for instructions on how to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster, due to raft entries relating to Enterprise features not being parseable by open source Nomad.

## ## Expiring Licenses

Nomad Enterprise licenses have an expiration time. You can read and validate the license on a running server, on disk, or in your environment with the `[ nomad license` commands ](/nomad/docs/commands/license)`.

Before upgrading Nomad or replacing your license with a new one, you should always run `[ nomad license inspect` ](/nomad/docs/commands/license/inspect)` to ensure the license is valid with your server binary.

As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching expiration. Below shows log excerpts of the warnings.

```
...
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400 [WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400
[WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
...
```

When the license expires, enterprise functionality will become limited. Only read operations on enterprise endpoints will be supported, and write operations will return an error.

## ## Configuring the License

See the server `[license configuration]` reference documentation on all the options to set an enterprise license. Nomad will load the license file from disk or environment when it starts.

~> **Note:** An Enterprise license `[tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license)` is available to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

...

```
NOMAD_LICENSE=misconfigured nomad agent -dev
```

```
==>
```

```
No configuration files loaded
```

```
==> Starting Nomad agent...
```

```
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but the license is invalid: error decoding version: expected integer
```

...

See the [License commands](/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

[releases site]: <https://releases.hashicorp.com/nomad>

[license configuration]: /nomad/docs/configuration/server#license\_path

[license endpoint]: /nomad/api-docs/operator/license#updating-the-nomad-enterprise-license

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//go:build !ent

package nomad

```
func (c *LicenseConfig) Validate() error {
    return nil
}
```

---

layout: api

page\_title: License - Operator - HTTP API

description: |-

The /operator/license endpoints allow for retrieving the Nomad Enterprise License.

---

# License Operator HTTP API

<EnterpriseAlert />

## Get Nomad Enterprise License Info

This endpoint gets information about the current license.

| Method | Path                 | Produces         |
|--------|----------------------|------------------|
| GET    | /v1/operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/nomad/api-docs#blocking-queries) and [required ACLs](/nomad/api-docs#acls).

| Blocking Queries | ACL Required  |
|------------------|---------------|
| NO               | operator:read |

### ### Sample Request

```
``shell-session
$ curl \
  https://localhost:4646/v1/operator/license
``
```

### ### Sample Response

```
``json
{
  "KnownLeader": false,
  "LastContact": 0,
  "LastIndex": 0,
  "License": {
    "CustomerID": "customer name",
    "ExpirationTime":
      "2020-06-01T14:50:16.581304556-04:00",
    "Features": [
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Redundancy Zones",
      "Namespaces",
      "Resource Quotas",
      "Preemption",
      "Audit Logging",
      "Setinel Policies"
    ],
    "Flags": {
      "modules": ["governance-policy"]
    },
    "InstallationID": "*",
    "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
    "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
    "Modules": ["governance-policy"],
    "Product": "nomad",
    "StartTime": "2020-06-01T08:50:16.581304556-04:00",
    "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
  },
  "RequestTime": 0
}
```

```

}
...
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package command

import (
    "fmt"

    "github.com/hashicorp/nomad/api"
    "github.com/posener/complete"
)

type LicenseGetCommand struct {
    Meta
}

func (c *LicenseGetCommand) Help() string {
    helpText := `
Usage: nomad license get [options]

Gets the license loaded by the server. The command is not forwarded to the
Nomad leader, and will return the license from the specific server being
contacted.

When ACLs are enabled, this command requires a token with the
'operator:read' capability.

General Options:

` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

    return helpText
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
    return complete.Flags{}
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
    return complete.PredictNothing
}

func (c *LicenseGetCommand) Synopsis() string {
    return "Retrieve the current Nomad Enterprise License"
}

```

```

func (c *LicenseGetCommand)
Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
flags.Usage = func() { c.Ui.Output(c.Help()) }

if err := flags.Parse(args); err != nil {
c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
return 1
}

client, err := c.Meta.Client()
if err != nil {
c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
return 1
}

resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{ })
if err != nil {
c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
return 1
}

return OutputLicenseReply(c.Ui, resp)
}

```

---

layout: docs

page\_title: Automated license utilization reporting

description: >-

Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

---

# Automated license utilization reporting

Automated license utilization reporting sends license utilization data to HashiCorp without requiring you to manually collect and report them. It also lets you review your license usage with the monitoring solution you already use (for example Splunk, Datadog, or others) so you can optimize and manage your deployments. Use these reports to understand how much more you can deploy under your current contract, protect against overutilization, and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. They consist of mostly computed metrics and will never contain Personal Identifiable Information (PII) or other sensitive information.

Automated reporting shares the data with HashiCorp using a secure, unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

## ## Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

### ### 1. Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from <https://reporting.hashicorp.services> by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

### ### 2. Upgrade

Upgrade to a release that supports license utilization reporting. These releases include:

- [Nomad v1.7.0](/nomad/downloads) and later

### ###

#### 3. Check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

Instructions on how to check logs.

...

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording audit record
[INFO] reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"nomad","product_version":"1.6.0","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"nomad","metrics":{"nomad.billable.nodes":{"key":"nomad.billable.nodes","kind":"counter","mode":"write","value":33}}}}]}
[DEBUG]
completed recording audit record
[DEBUG] core.reporting: export finished successfully
```

...

If your installation is air-gapped or your network doesn't allow the correct egress, logs will show an error.

...

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: error status code received: statusCode=403
```

...

In this case, reconfigure your network to allow egress and check back in 24 hours.

## ## Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt-out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you're worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting: HCL configuration (recommended) and Environment variable (requires restart).

Opting out in your products configuration file doesn't require a system restart, and is the method we recommend. Add the following block to your `server.hcl` file.

```
```hcl
reporting {
  license {
    enabled = false
  }
}
```
```

If you need to, you can also opt out using an environment variable, which will provide a startup message

confirming that you have disabled automated reporting. This option requires a system restart.

Set the following environment variable.

```
...  
$ export OPTOUT_LICENSE_REPORTING=true  
...
```

Now restart your system by following [\[these instructions\]\(/nomad/docs/operations/nomad-agent\)](/nomad/docs/operations/nomad-agent).

Check your product logs roughly 24 hours after opting out to make sure that the system isn't trying to send reports.

If your configuration file and environment variable differ, the environment variable setting will take precedence.

### ## Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`billable.nodes` - Number of billable nodes in Nomad

```
```json  
"metrics": {  
  "nomad.billable.nodes": {  
    "key": "nomad.billable.nodes",  
    "kind": "counter",  
    "mode": "write",  
    "value":  
33  
  }  
}  
```
```

---  
layout: docs

page\_title: Nomad Enterprise License FAQ

description: >-

Frequently Asked Questions pertaining to Nomad Enterprise Licensing.

---

### # Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.6.0+ent.

For license-related FAQ for earlier versions, please refer to earlier versions of this document using the version drop-down on this page, e.g. [\[v1.5.x\]\(/nomad/docs/v1.5.x/enterprise/license/faq\)](/nomad/docs/v1.5.x/enterprise/license/faq).

## Q: Can I get a quick summary of the Nomad changes?



Starting with Nomad Enterprise v1.6.0, license expiration is different.

For trial licenses, the behavior remains the same. Enterprise features will stop working when the license expires, and a server can not start with an expired license.

For new "non-terminating" contract licenses, instead of expiration being compared to the current time, expiration time is compared to the build date of the Nomad binary, which you can find in the output of the `[ nomad version ](/nomad/docs/commands/version)` command.

The practical result is that newer contract licenses will work in perpetuity for any v1.6.0+ version of Nomad built prior to the expiration time of the license. No features will stop working, and server agents can be restarted safely.

However, if you try to upgrade to a newer binary past license expiration, the server will not start. To proactively avoid that, you can test a new binary with your license using the new `[ nomad license inspect ]` `[license inspect]` command before trying to upgrade your servers.

## Q: What resources are available?

The list below is a great starting point for learning more about license usage in general.

- [\[v1.6.0 Upgrade Guide\]\(/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate\)](/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate)
- [\[Nomad License Documentation\]\(/nomad/docs/enterprise/license\)](/nomad/docs/enterprise/license)
- [\[License configuration values documentation\]\(/nomad/docs/configuration/server#license\\_path\)](/nomad/docs/configuration/server#license_path)
- [\[Install a HashiCorp Enterprise License Tutorial\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license\)](/nomad/tutorials/enterprise/hashicorp-enterprise-license)

##

Q: Does this affect older versions of Nomad?

This change only affects Nomad Enterprise version v1.6.0+ent and later.

## Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present. Nomad agents running with the `-dev`` flag will also need a license.

## Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you have an expired license that has not yet become fully nonfunctional (i.e. it is in grace period between `ExpirationTime` and `TerminationTime`), then a Nomad server will not be able to start using a new v1.6.0+ binary.

Before shutting down a server agent to replace it with a new version, be sure to run `[`nomad license inspect`][license inspect]` with the new binary.

## Q: How can a user get their existing license?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email [support-software@hashicorp.com](mailto:support-software@hashicorp.com) for information on how to get your organization's enterprise license.

You can use ``nomad license get`` to retrieve information about the license, but not the license itself.

## Q: What happens when a license expires?

All features will continue to work until you attempt to upgrade Nomad that is newer than your license expiration time.

In that case, the server agent will fail to start, and you'll need to roll back to the previous working version and acquire a new license to use with the newer Nomad version before attempting the upgrade again.

## Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

## Q: Where can users get a trial license for Nomad?

Follow [\[these instructions\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license\)](/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license) to request and enable a free 30-day trial license.

## Q: When a Nomad client agent restarts, will it still need a license file?

Every time ``nomad agent`` runs as a server (or in ``-dev``), it requires a license.

## Q: May I downgrade Nomad Enterprise from v1.6.0 to an earlier version?

Yes, if you upgrade a server to 1.6.0+ but it fails to start due to license expiration, you can roll back to a previous working version with the old expiration logic.

If a server fails to start for any other reason aside from license expiration, roll back to a previous version is not supported due to the Nomad state store not having forward compatibility, and may result in a crash loop.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [\[Enterprise License Tutorial\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license\)](/nomad/tutorials/enterprise/hashicorp-enterprise-license).

```
[license inspect]: /nomad/docs/commands/license/inspect
```

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: BUSL-1.1
```

```
package nomad
```

```

import (
    "slices"
    "time"
)

// LicenseConfig allows for tunable licensing config
// primarily used for enterprise testing
type LicenseConfig struct {
    // BuildDate is the time of the git commit used to build the program.
    BuildDate time.Time

    // LicenseEnvBytes is the license bytes to use for the server's license
    LicenseEnvBytes string

    // LicensePath is the path to use for the server's license
    LicensePath string

    // AdditionalPubKeys is a set of public keys to
    AdditionalPubKeys []string
}

func (c *LicenseConfig) Copy() *LicenseConfig {
    if c == nil {
        return nil
    }

    nc := *c
    nc.AdditionalPubKeys = slices.Clone(c.AdditionalPubKeys)
    return &nc
}
ISC
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: BUSL-1.1

package command

import (
    "testing"
    "time"

    "github.com/hashicorp/nomad/api"
    "github.com/hashicorp/nomad/ci"
    "github.com/mitchellh/cli"
    "github.com/stretchr/testify/require"
)

var _ cli.Command = &LicenseGetCommand{}

```

```

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
    ci.Parallel(t)

    srv, _, url := testServer(t, false, nil)
    defer srv.Shutdown()

    ui := cli.NewMockUi()
    cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

    code := cmd.Run([]string{"-address=" + url})
    if srv.Enterprise {
        require.Equal(t, 0, code)
    } else {
        require.Equal(t, 1, code)
        require.Contains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
    }
}

func TestOutputLicenseReply(t *testing.T) {
    ci.Parallel(t)

    now := time.Now()
    lic := &api.LicenseReply{
        License: &api.License{
            LicenseID:    "licenseID",
            CustomerID:   "customerID",
            InstallationID: "*",
            IssueTime:    now,
            StartTime:   now,
            ExpirationTime:
                now.Add(1 * time.Hour),
            TerminationTime: now,
            Product:      "nomad",
            Flags: map[string]interface{}{
                "": nil,
            },
        },
    }

    ui := cli.NewMockUi()

    require.Equal(t, 0, OutputLicenseReply(ui, lic))

    out := ui.OutputWriter.String()
    require.Contains(t, out, "Customer ID")
    require.Contains(t, out, "License ID")
}

```

---

layout: docs

page\_title: 'Commands: license inspect'

description: |

The license inspect command is used to inspect and validate an enterprise license.

---

# Command: license inspect

<EnterpriseAlert>

This command is only present in Nomad Enterprise.

</EnterpriseAlert>

The `license inspect` command is used to inspect and validate a Nomad Enterprise license. It will read the license from a file on disk or an environment variable and exit non-0 if the license is not valid with the Nomad binary.

This command should always be run with the new binary before upgrading Nomad on a server, as the server agent will not start with an invalid license.

## Usage

```plaintext

nomad license inspect [/path/to/license.hcl]

```

## Examples

With a license file argument:

```shell-session

\$ nomad license inspect /path/to/nomad/license.hcl

Source: /path/to/nomad/license.hcl

Product: nomad

License ID: aaaaaaaaa-aaaa-aaaa-aaaa-aaaaaaaaaaaa

Customer ID: bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb

Installation

ID: \*

Issue Time: 2021-12-01 17:49:23.021041516 +0000 UTC

Start Time: 2021-12-01 00:00:00 +0000 UTC

Expiration Time: 2023-12-01 00:00:00 +0000 UTC

Termination Time: 2024-01-01 00:00:00 +0000 UTC

Build Date: 2000-01-01 00:00:00 +0000 UTC

Flags: {

  "modules": [

    "multicluster-and-efficiency",

    "governance-policy"

  ]

```
}
```

```
License is valid  
^^^
```

With a license file environment variable:

```
^^^shell-session  
$ export NOMAD_LICENSE_PATH=/path/to/nomad/license.hcllic  
$ nomad license inspect  
Source: /path/to/nomad/license.hcllic (path from the NOMAD_LICENSE_PATH environment variable)  
Product: nomad  
.....  
License is valid  
^^^
```

With a license string environment variable:

```
^^^shell-session  
$ export NOMAD_LICENSE=full-license-text-string  
$ nomad license inspect  
Source: NOMAD_LICENSE environment variable  
.....  
License is valid  
^^^
```

## Example error

```
^^^shell-session  
$ nomad license inspect license.hcllic  
...  
Validation Errors:  
* license is no longer valid  
* license expiration  
date is before version build date: expiration=2023-01-13T23:59:59Z build=2023-03-17T00:00:00Z  
^^^
```

```
---  
layout: docs  
page_title: 'Commands: license get'  
description: |  
The license get command is used to get the current license.  
---
```

# Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

## ## Usage

```
```plaintext
```

```
nomad license get [options]
```

```
```
```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

## ## General Options

```
@include 'general_options_no_namespace.mdx'
```

## ## Examples

```
```shell-session
```

```
$ nomad license get
```

```
Product      = nomad
License Status = valid
License ID    = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID   = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At     = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At    = 2020-05-09 00:00:00 +0000 UTC
Terminates At = 2020-05-10
              00:00:00 +0000 UTC
Datacenter    = *
Modules:
  governance-policy
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Preemption
  Audit Logging
  Sentinel Policies
```
```

```
```shell-session
```

```
$ nomad license get -stale=true
```

```
Product      = nomad
```

License Status = valid  
License ID = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d  
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2  
Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC  
Expires At = 2022-04-01 00:00:00 +0000 UTC  
Terminates At = 2022-04-04 00:00:00 +0000 UTC  
Datacenter = \*

Modules:

- governance-policy
- multicluster-and-efficiency

Licensed Features:

- Automated Upgrades
- Enhanced Read Scalability
- Redundancy Zones
- Namespaces
- Resource Quotas
- Audit Logging
- Sentinel Policies
- Multiregion Deployments
- Automated Backups

Multi-Vault Namespaces

...

# 1.525 boto3 1.34.42

## 1.525.1 Available under license :

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boto3

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## 1.526 botocore 1.34.42

### 1.526.1 Available under license :

```
{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-08-01",
    "endpointPrefix":"license-manager",
    "jsonVersion":"1.1",
    "protocol":"json",
    "serviceFullName":"AWS License Manager",
    "serviceId":"License Manager",
    "signatureVersion":"v4",
    "targetPrefix":"AWSLicenseManager",
    "uid":"license-manager-2018-08-01"
  },
  "operations":{
    "AcceptGrant":{
      "name":"AcceptGrant",
      "http":{
        "method":"POST",
        "requestUri":"/"
      }
    }
  },
}
```

```

"input":{"shape":"AcceptGrantRequest"},
"output":{"shape":"AcceptGrantResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"}
],
"documentation":"<p>Accepts the specified grant.</p>"
},

"CheckInLicense":{
  "name":"CheckInLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckInLicenseRequest"},
  "output":{"shape":"CheckInLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ConflictException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Checks in the specified license. Check in a license when it is no longer in use.</p>"
},

"CheckoutBorrowLicense":{
  "name":"CheckoutBorrowLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckoutBorrowLicenseRequest"},
  "output":{"shape":"CheckoutBorrowLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"NoEntitlementsAllowedException"},
    {"shape":"EntitlementNotAllowedException"},

```

```

    {"shape":"UnsupportedDigitalSignatureMethodException"},
    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Checks out the specified license for offline use.</p>"
},
"CheckoutLicense":{
  "name":"CheckoutLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckoutLicenseRequest"},
  "output":{"shape":"CheckoutLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
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    {"shape":"UnsupportedDigitalSignatureMethodException"},
    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Checks out the specified license.</p> <note> <p>If the account that created the license is
the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>"
},
"CreateGrant":{
  "name":"CreateGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateGrantRequest"},
  "output":{"shape":"CreateGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"}
  ]
}

```

```

    ],
    "documentation": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with
a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information,
see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted
licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
  },
  "CreateGrantVersion":{
    "name":"CreateGrantVersion",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CreateGrantVersionRequest"},
    "output":{"shape":"CreateGrantVersionResponse"},
    "errors":[
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      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation": "<p>Creates a new version of the specified grant. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
  },
  "CreateLicense":{
    "name":"CreateLicense",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CreateLicenseRequest"},
    "output":{"shape":"CreateLicenseResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"RedirectException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation": "<p>Creates a license.</p>"
  },
  "CreateLicenseConfiguration":{
    "name":"CreateLicenseConfiguration",

```

```

"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"CreateLicenseConfigurationRequest"},
"output":{"shape":"CreateLicenseConfigurationResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>"
},
"CreateLicenseConversionTaskForResource":{
  "name":"CreateLicenseConversionTaskForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
  "output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ValidationException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Creates a new license conversion task.</p>"
},
"CreateLicenseManagerReportGenerator":{
  "name":"CreateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"CreateLicenseManagerReportGeneratorResponse"},
  "errors":[]
}

```



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    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Creates a report generator.</p>"
},
"CreateLicenseVersion":{
  "name":"CreateLicenseVersion",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseVersionRequest"},
  "output":{"shape":"CreateLicenseVersionResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"},
    {"shape":"ConflictException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Creates a new version of the specified license.</p>"
},
"CreateToken":{
  "name":"CreateToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateTokenRequest"},
  "output":{"shape":"CreateTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ]
}

```

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    ],
    "documentation": "<p>Creates a long-lived
token.</p><p>A refresh token is a JWT token used to get an access token. With an access token, you can call
AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the
specified license.</p>"
  },
  "DeleteGrant": {
    "name": "DeleteGrant",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "DeleteGrantRequest" },
    "output": { "shape": "DeleteGrantResponse" },
    "errors": [
      { "shape": "ValidationException" },
      { "shape": "InvalidParameterValueException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" },
      { "shape": "ResourceLimitExceededException" },
      { "shape": "ServerInternalException" }
    ],
    "documentation": "<p>Deletes the specified grant.</p>"
  },
  "DeleteLicense": {
    "name": "DeleteLicense",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "DeleteLicenseRequest" },
    "output": { "shape": "DeleteLicenseResponse" },
    "errors": [
      { "shape": "ValidationException" },
      { "shape": "InvalidParameterValueException" },
      { "shape": "RedirectException" },
      { "shape": "ConflictException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Deletes the specified license.</p>"
  },
  "DeleteLicenseConfiguration": {
    "name": "DeleteLicenseConfiguration",
    "http": {

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    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "DeleteLicenseConfigurationRequest" },
  "output": { "shape": "DeleteLicenseConfigurationResponse" },
  "errors": [
    { "shape": "InvalidParameterValueException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "AccessDeniedException" },
    { "shape": "RateLimitExceededException" }
  ],
  "documentation": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>"
},
"DeleteLicenseManagerReportGenerator": {
  "name": "DeleteLicenseManagerReportGenerator",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "DeleteLicenseManagerReportGeneratorRequest" },
  "output": { "shape": "DeleteLicenseManagerReportGeneratorResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "InvalidParameterValueException" },
    { "shape": "ResourceLimitExceededException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "RateLimitExceededException" },
    { "shape": "AccessDeniedException" },
    { "shape": "ResourceNotFoundException" }
  ],
  "documentation": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
},
"DeleteToken": {
  "name": "DeleteToken",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "DeleteTokenRequest" },
  "output": { "shape": "DeleteTokenResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "AuthorizationException" },

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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ],
  "documentation":"<p>Deletes the specified token. Must be called in the license home Region.</p>"
},
"ExtendLicenseConsumption":{
  "name":"ExtendLicenseConsumption",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ExtendLicenseConsumptionRequest"},
  "output":{"shape":"ExtendLicenseConsumptionResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Extends the expiration date for license consumption.</p>"
},
"GetAccessToken":{
  "name":"GetAccessToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},

    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>"
},
"GetGrant":{
  "name":"GetGrant",

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"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"GetGrantRequest"},
"output":{"shape":"GetGrantResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Gets detailed information about the specified grant.</p>"
},
"GetLicense":{
  "name":"GetLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseRequest"},
  "output":{"shape":"GetLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets detailed information about the specified license.</p>"
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets detailed
information about the specified license configuration.</p>"
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets information about the specified license type conversion task.</p>"
},
"GetLicenseManagerReportGenerator":{
  "name":"GetLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Gets information about the specified report generator.</p>"
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "documentation":"<p>Gets information about the specified license usage.</p>"
}

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"input":{"shape":"GetLicenseUsageRequest"},
"output":{"shape":"GetLicenseUsageResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
],
"documentation":"<p>Gets detailed information about the usage of the specified license.</p>"
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets the License Manager settings for the current Region.</p>"
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>"
},

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"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants distributed for the specified license.</p>"
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configuration operations that failed.</p>"
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configurations for your account.</p>"
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license type conversion tasks for your account.</p>"
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

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    },
    "input": {"shape": "ListLicenseSpecificationsForResourceRequest"},
    "output": {"shape": "ListLicenseSpecificationsForResourceResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ],
    "documentation": "<p>Describes the license configurations for the specified resource.</p>"
  },
  "ListLicenseVersions": {
    "name": "ListLicenseVersions",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "ListLicenseVersionsRequest"},
    "output": {"shape": "ListLicenseVersionsResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "ServerInternalException"}
    ],
    "documentation": "<p>Lists all versions of the specified license.</p>"
  },
  "ListLicenses": {
    "name": "ListLicenses",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "ListLicensesRequest"},
    "output": {"shape": "ListLicensesResponse"},
    "errors": [
      {"shape": "ValidationException"},
      {"shape": "InvalidParameterValueException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"},
      {"shape": "ServerInternalException"}
    ],
    "documentation": "<p>Lists the licenses for your account.</p>"
  },
  "ListReceivedGrants": {

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"name":"ListReceivedGrants",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsRequest"},
"output":{"shape":"ListReceivedGrantsResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>"
},
"ListReceivedGrantsForOrganization":{"
  "name":"ListReceivedGrantsForOrganization",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants received for all accounts in the organization.</p>"
},
"ListReceivedLicenses":{"
  "name":"ListReceivedLicenses",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[]

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```

    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation": "<p>Lists received licenses.</p>"
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
},

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"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the tags for the specified license configuration.</p>"
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists your tokens.</p>"
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists all license usage records for a license configuration, displaying license consumption
  details by resource at a selected point in time. Use this action to audit the current license consumption for any
  license inventory and configuration.</p>"
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Rejects the specified grant.</p>"
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds the specified tags to the specified license configuration.</p>"
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

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"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Removes the specified tags from the specified license configuration.</p>"
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation":"<p>Updates a report generator.</p> <p>After you make changes to a report generator, it

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starts generating new reports within 60 minutes of being updated.</p>"

```
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"InvalidResourceStateException"},
    {"shape":"LicenseUsageException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>"
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Updates License Manager settings for the current Region.</p>"
}
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
```



```

    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Grant ARN.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Grant version.</p>"
      }
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>Access to resource denied.</p>",
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
      "ExtendConsumptionLicense",
      "ListPurchasedLicenses",
      "CreateToken"
    ]
  }
}

```

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]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d)?:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-
Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/_+=,@.-]{0,1023})$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The Amazon Web Services user account does not have permission to perform the action.
Check the IAM policy associated with this account.</p>",
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{
      "shape":"DateTime",
      "documentation":"<p>Time
that automated discovery last ran.</p>"
    }
  },
  "documentation":"<p>Describes automated discovery.</p>"
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{
      "shape":"BoxBoolean",

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    "documentation": "<p>Indicates whether early check-ins are allowed.</p>"
  },
  "MaxTimeToLiveInMinutes": {
    "shape": "BoxInteger",
    "documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>"
  }
},
"documentation": "<p>Details about a borrow configuration.</p>"
},
"BoxBoolean": { "type": "boolean" },
"BoxInteger": { "type": "integer" },
"BoxLong": { "type": "long" },
"CheckInLicenseRequest": {
  "type": "structure",
  "required": [ "LicenseConsumptionToken" ],
  "members": {
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "Beneficiary": {
      "shape": "String",
      "documentation": "<p>License beneficiary.</p>"
    }
  }
},
"CheckInLicenseResponse": {
  "type": "structure",
  "members": {
  }
},
"CheckoutBorrowLicenseRequest": {
  "type": "structure",
  "required": [
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>"
    },
    "Entitlements": {
      "shape": "EntitlementDataList",
      "documentation": "<p>License entitlements. Partial checkouts are not supported.</p>"
    }
  }
}

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    },
    "DigitalSignatureMethod":{
      "shape":"DigitalSignatureMethod",

      "documentation":"<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
    },
    "NodeId":{
      "shape":"String",
      "documentation":"<p>Node ID.</p>"
    },
    "CheckoutMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Information about constraints.</p>"
    },
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    }
  }
},
"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "EntitlementsAllowed":{
      "shape":"EntitlementDataList",
      "documentation":"<p>Allowed license entitlements.</p>"
    },
    "NodeId":{
      "shape":"String",
      "documentation":"<p>Node ID.</p>"
    },
    "SignedToken":{
      "shape":"SignedToken",
      "documentation":"<p>Signed token.</p>"
    },
    "IssuedAt":{
      "shape":"ISO8601DateTime",

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    "documentation": "<p>Date and time at which the license checkout is issued.</p>"
  },
  "Expiration": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>Date and time at which the license checkout expires.</p>"
  },
  "CheckoutMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>Information about constraints.</p>"
  }
},
"CheckoutLicenseRequest": {
  "type": "structure",
  "required": [
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members": {
    "ProductSKU": {
      "shape": "String",
      "documentation": "<p>Product SKU.</p>"
    },
    "CheckoutType": {
      "shape": "CheckoutType",
      "documentation": "<p>Checkout type.</p>"
    },
    "KeyFingerprint": {
      "shape": "String",
      "documentation": "<p>Key fingerprint identifying the license.</p>"
    },
    "Entitlements": {
      "shape": "EntitlementDataList",
      "documentation": "<p>License entitlements.</p>"
    },
    "ClientToken": {
      "shape": "ClientToken",
      "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "Beneficiary": {
      "shape": "String",
      "documentation": "<p>License beneficiary.</p>"
    }
  },
  "NodeId": {

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    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  }
}
},
"CheckoutLicenseResponse": {
  "type": "structure",
  "members": {
    "CheckoutType": {
      "shape": "CheckoutType",
      "documentation": "<p>Checkout type.</p>"
    },
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "EntitlementsAllowed": {
      "shape": "EntitlementDataList",
      "documentation": "<p>Allowed license entitlements.</p>"
    },
    "SignedToken": {
      "shape": "SignedToken",
      "documentation": "<p>Signed token.</p>"
    },
    "NodeId": {
      "shape": "String",
      "documentation": "<p>Node ID.</p>"
    },
    "IssuedAt": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>Date and time at which the license checkout is issued.</p>"
    },
    "Expiration": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>Date and time at which the license checkout expires.</p>"
    },
    "LicenseArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
    }
  }
},
"CheckoutType": {
  "type": "string",
  "enum": [
    "PROVISIONAL",
    "PERPETUAL"
  ]
}

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]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>There was a conflict processing the request. Try your request again.</p>",
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Resource type of the resource consuming a
license.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about license consumption.</p>"
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{
      "shape":"RenewType",
      "documentation":"<p>Renewal frequency.</p>"
    }
  },
  "ProvisionalConfiguration":{
    "shape":"ProvisionalConfiguration",

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    "documentation": "<p>Details about a provisional configuration.</p>"
  },
  "BorrowConfiguration": {
    "shape": "BorrowConfiguration",
    "documentation": "<p>Details about a borrow configuration.</p>"
  }
},
"documentation": "<p>Details about a consumption configuration.</p>"
},
"CreateGrantRequest": {
  "type": "structure",
  "required": [
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members": {
    "ClientToken": {
      "shape": "ClientToken",
      "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "GrantName": {
      "shape": "String",
      "documentation": "<p>Grant name.</p>"
    },
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Principals": {
      "shape": "PrincipalArnList",
      "documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts across your organization.</p> </li> </ul>"
    },
    "HomeRegion": {
      "shape": "String",
      "documentation": "<p>Home Region of the grant.</p>"
    },
    "AllowedOperations": {
      "shape": "AllowedOperationList",
      "documentation": "<p>Allowed operations for the grant.</p>"
    }
  }
}

```



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    }
  }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],
  "members":{
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "AllowedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Allowed operations for the grant.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    }
  }
}

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    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>Grant status reason.</p>"
    },
    "SourceVersion":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    },
    "Options":{

      "shape":"Options",
      "documentation":"<p>The options specified for the grant.</p>"
    }
  },
  "CreateGrantVersionResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Grant ARN.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>New version of the grant.</p>"
      }
    }
  },
  "CreateLicenseConfigurationRequest":{
    "type":"structure",
    "required":[
      "Name",
      "LicenseCountingType"
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Name of the license configuration.</p>"
      },
      "Description":{
        "shape":"String",
        "documentation":"<p>Description of the license configuration.</p>"
      }
    }
  },

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"LicenseCountingType":{
  "shape":"LicenseCountingType",
  "documentation":"<p>Dimension used to track the license inventory.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses managed by the license configuration.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit
blocks the launch of new instances.</p>"
},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-
DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code>
dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code>
dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> <li>
<p> <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code>
dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> |
<code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </ul> <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are
<code>True</code> and <code>False</code>.</p>"
},
"Tags":{
  "shape":"TagList",
  "documentation":"<p>Tags to add to the
license configuration.</p>"
},
"DisassociateWhenNotFound":{
  "shape":"BoxBoolean",
  "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
},
"ProductInformationList":{
  "shape":"ProductInformationList",
  "documentation":"<p>Product information.</p>"
}
}
}
"CreateLicenseConfigurationResponse":{
  "type":"structure",

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"members":{
  "LicenseConfigurationArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information that identifies the license type you are converting from. For the structure of
the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information that identifies the license type you are converting to. For the structure of the
destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
    }
  },
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>The ID of the created license type conversion task.</p>"
    }
  },
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[]
}

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    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{
      "shape":"ReportGeneratorName",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "Type":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports to generate. The following report types an be generated:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption
for a license configuration.</p> </li> </ul>"
    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>Defines the type of license configuration the report generator tracks.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or
weekly.</p>"
    },
    "ClientToken":{
      "shape":"ClientRequestToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Tags to add to the report generator.</p>"
    }
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
    }
  }
}

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    }
  }
},
"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"Issuer",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region for the license.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License entitlements.</p>"
    },
    "Beneficiary":{

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    "shape":"String",
    "documentation":"<p>License beneficiary.</p>"
  },
  "ConsumptionConfiguration":{
    "shape":"ConsumptionConfiguration",
    "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>"
  },
  "LicenseMetadata":{
    "shape":"MetadataList",
    "documentation":"<p>Information about the license.</p>"
  },
  "ClientToken":{
    "shape":"ClientToken",
    "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>License version.</p>"
    }
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",

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```

    "Status",
    "ClientToken"
  ],

  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "Issuer":{
      "shape":"Issuer",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the license.</p>"
    },
    "Validity":{
      "shape":"DateTimeRange",
      "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    },
    "LicenseMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Information about the license.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License
entitlements.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for
workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
    },
  },

```



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"ClientToken":{
  "shape":"ClientToken",
  "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
},
"SourceVersion":{
  "shape":"String",
  "documentation":"<p>Current version of the license.</p>"
}
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>License
ARN.</p>"
},
    "Version":{
      "shape":"String",
      "documentation":"<p>New version of the license.</p>"
},
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>License status.</p>"
}
}
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of
the JWT token.</p>"
},
    "RoleArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License
Manager does not check whether the roles are in use.</p>"
},
    "ExpirationInDays":{
      "shape":"Integer",

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    "documentation": "<p>Token expiration, in days, counted from token creation. The default is 365
days.</p>"
  },
  "TokenProperties": {
    "shape": "MaxSize3StringList",
    "documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped to the
amr claim of the JWT token.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Idempotency token, valid for 10 minutes.</p>"
  }
}
},
"CreateTokenResponse": {
  "type": "structure",
  "members": {
    "TokenId": {
      "shape": "String",
      "documentation": "<p>Token ID.</p>"
    },
    "TokenType": {
      "shape": "TokenType",
      "documentation": "<p>Token type.</p>"
    },
    "Token": {
      "shape": "TokenString",
      "documentation": "<p>Refresh token, encoded as a JWT token.</p>"
    }
  }
},
"DateTime": { "type": "timestamp" },
"DatetimeRange": {
  "type": "structure",
  "required": [ "Begin" ],
  "members": {
    "Begin": {

      "shape": "ISO8601DateTime",
      "documentation": "<p>Start of the time range.</p>"
    },
    "End": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>End of the time range.</p>"
    }
  },
  "documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
},

```

```

"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>The Status reason for the delete request.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    }
  }
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>ID of the license configuration.</p>"
    }
  }
},

```

```

"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
    }
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "SourceVersion":{
      "shape":"String",
      "documentation":"<p>Current version of the license.</p>"
    }
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{
      "shape":"LicenseDeletionStatus",
      "documentation":"<p>License status.</p>"
    },
    "DeletionDate":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date when the license is deleted.</p>"
    }
  }
}

```

```

    }
  },
  "DeleteTokenRequest":{
    "type":"structure",
    "required":["TokenId"],
    "members":{
      "TokenId":{
        "shape":"String",
        "documentation":"<p>Token ID.</p>"
      }
    }
  },
  "DeleteTokenResponse":{
    "type":"structure",
    "members":{
    }
  },
  "DigitalSignatureMethod":{
    "type":"string",
    "enum":["JWT_PS384"]
  },
  "Entitlement":{
    "type":"structure",
    "required":[
      "Name",
      "Unit"
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Entitlement name.</p>"
      },
      "Value":{
        "shape":"String",
        "documentation":"<p>Entitlement resource. Use only if the unit is None.</p>"
      },
      "MaxCount":{
        "shape":"Long",
        "documentation":"<p>Maximum entitlement count. Use if the unit is not None.</p>"
      },
      "Overage":{
        "shape":"BoxBoolean",
        "documentation":"<p>Indicates whether overages are allowed.</p>"
      },
      "Unit":{
        "shape":"EntitlementUnit",
        "documentation":"<p>Entitlement unit.</p>"
      }
    }
  },

```

```

"AllowCheckIn":{
  "shape":"BoxBoolean",
  "documentation":"<p>Indicates whether check-ins are allowed.</p>"
}
},
"documentation":"<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement data name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Entitlement data value.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement data unit.</p>"
    }
  },
  "documentation":"<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",

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    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The entitlement is not allowed.</p>",
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",

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    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement usage name.</p>"
    },
    "ConsumedValue":{
      "shape":"String",
      "documentation":"<p>Resource usage consumed.</p>"
    },
    "MaxCount":{
      "shape":"String",
      "documentation":"<p>Maximum entitlement usage count.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement usage unit.</p>"
    }
  },
  "documentation":"<p>Usage associated with an entitlement resource.</p>"
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{

```



```

"LicenseConsumptionToken":{
  "shape":"String",
  "documentation":"<p>License consumption token.</p>"
},
"DryRun":{
  "shape":"Boolean",
  "documentation":"<p>Checks whether you have the required permissions for the action, without actually
making the request. Provides
an error response if you do not have the required permissions.</p>"
}
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license consumption expires.</p>"
    }
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "documentation":"<p>A dependency required to run the API is missing.</p>",
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"FilterName",
      "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
    },
    "Values":{

      "shape":"FilterValues",
      "documentation":"<p>The value of the filter, which is case-sensitive. You can only specify one value for the
filter.</p>"
    }
  }
},

```

```

"documentation": "<p>A filter name and value pair that is used to return more specific results from a describe
operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation": "<p>The request uses too many filters or too many filter values.</p>",
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{
      "shape":"TokenString",
      "documentation": "<p>Refresh token, encoded as a JWT token.</p>"
    },
    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
    }
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{
      "shape":"TokenString",
      "documentation": "<p>Temporary access token.</p>"
    }
  }
}

```

```

},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{
      "shape":"Grant",
      "documentation":"<p>Grant details.</p>"
    }
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    }
  }
}

```

```

},
"Description":{
  "shape":"String",
  "documentation":"<p>Description of the license configuration.</p>"
},
"LicenseCountingType":{
  "shape":"LicenseCountingType",
  "documentation":"<p>Dimension for which the licenses are counted.</p>"
},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of available licenses.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses assigned to resources.</p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>License configuration status.</p>"
},
"OwnerAccountId":{
  "shape":"String",
  "documentation":"<p>Account ID of the owner of the license configuration.</p>"
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":"<p>Summaries of the licenses consumed by resources.</p>"
},
"ManagedResourceSummaryList":{
  "shape":"ManagedResourceSummaryList",
  "documentation":"<p>Summaries of the managed resources.</p>"
},
"Tags":{
  "shape":"TagList",
  "documentation":"<p>Tags for the license configuration.</p>"
},
"ProductInformationList":{
  "shape":"ProductInformationList",
  "documentation":"<p>Product information.</p>"
}

```

```

    },
    "AutomatedDiscoveryInformation":{
      "shape":"AutomatedDiscoveryInformation",
      "documentation":"<p>Automated discovery information.</p>"
    },
    "DisassociateWhenNotFound":{
      "shape":"BoxBoolean",
      "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
    }
  }
},
"GetLicenseConversionTaskRequest":{
  "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>ID of the license type conversion task to retrieve information on.</p>"
    }
  }
},
"GetLicenseConversionTaskResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>ID of the license type conversion task.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Names (ARN) of the resources the license conversion task is
associated with.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type converted from.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type converted to.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for the conversion task.</p>"
    },
    "Status":{
      "shape":"LicenseConversionTaskStatus",
      "documentation":"<p>Status of the license type conversion task.</p>"
    }
  }
}

```

```

    },
    "StartTime":{
      "shape":"DateTime",
      "documentation":"<p>Time at which the license type conversion task was started .</p>"
    },
    "LicenseConversionTime":{
      "shape":"DateTime",
      "documentation":"<p>Amount of time to complete the license type conversion.</p>"
    },
    "EndTime":{
      "shape":"DateTime",
      "documentation":"<p>Time
at which the license type conversion task was completed.</p>"
    }
  }
},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
    }
  }
},
"GetLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "ReportGenerator":{
      "shape":"ReportGenerator",
      "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
    }
  }
},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>License version.</p>"
    }
  }
}

```

```

    }
  },
  "GetLicenseResponse":{
    "type":"structure",
    "members":{
      "License":{
        "shape":"License",
        "documentation":"<p>License details.</p>"
      }
    }
  },
  "GetLicenseUsageRequest":{
    "type":"structure",
    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      }
    }
  },
  "GetLicenseUsageResponse":{
    "type":"structure",
    "members":{
      "LicenseUsage":{
        "shape":"LicenseUsage",
        "documentation":"<p>License usage details.</p>"
      }
    }
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "S3BucketArn":{
        "shape":"String",

        "documentation":"<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and
so on.</p>"
      },
      "SnsTopicArn":{
        "shape":"String",
        "documentation":"<p>SNS topic configured to receive notifications from License Manager.</p>"
      },
    }
  },

```

```

"OrganizationConfiguration":{
  "shape":"OrganizationConfiguration",
  "documentation":"<p>Indicates whether Organizations is integrated with License Manager for cross-account
discovery.</p>"
},
"EnableCrossAccountsDiscovery":{
  "shape":"BoxBoolean",
  "documentation":"<p>Indicates whether cross-account discovery is enabled.</p>"
},
"LicenseManagerResourceShareArn":{
  "shape":"String",
  "documentation":"<p>Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share.</p>"
}
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "ParentArn":{
      "shape":"Arn",
      "documentation":"<p>Parent ARN.</p>"
    },
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>License ARN.</p>"
    },
    "GranteePrincipalArn":{
      "shape":"Arn",

```



```

    "documentation": "<p>The grantee principal ARN.</p>"
  },
  "HomeRegion": {
    "shape": "String",
    "documentation": "<p>Home Region of the grant.</p>"
  },
  "GrantStatus": {
    "shape": "GrantStatus",
    "documentation": "<p>Grant status.</p>"
  },
  "StatusReason": {
    "shape": "StatusReasonMessage",
    "documentation": "<p>Grant status reason.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>Grant version.</p>"
  },
  "GrantedOperations": {
    "shape": "AllowedOperationList",
    "documentation": "<p>Granted operations.</p>"
  },
  "Options": {
    "shape": "Options",
    "documentation": "<p>The options specified for the grant.</p>"
  }
},
"documentation": "<p>Describes a grant.</p>"
},
"GrantList": {
  "type": "list",
  "member": { "shape": "Grant" }
},
"GrantStatus": {
  "type": "string",
  "enum": [
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",

"WORKFLOW_COMPLETED"
  ]
},

```

```

"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>Granted license issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the granted license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>Granted license status.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the granted license is valid, in ISO8601-UTC
format.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>Granted license beneficiary.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License entitlements.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license.</p>"
    }
  }
}

```

```

"LicenseMetadata":{
  "shape":"MetadataList",
  "documentation":"<p>Granted license metadata.</p>"
},
"CreateTime":{
  "shape":"ISO8601DateTime",
  "documentation":"<p>Creation time of the granted license.</p>"
},
"Version":{
  "shape":"String",
  "documentation":"<p>Version of the granted license.</p>"
},
"ReceivedMetadata":{
  "shape":"ReceivedMetadata",
  "documentation":"<p>Granted license received metadata.</p>"
}
},
"documentation":"<p>Describes a license that is granted to a grantee.</p>"
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]||[1-2][0-9])T(2[0-3]||[0-1][0-9]):([0-5][0-9]):([0-5][0-9])\\.(?:[0-9]+)?(?:Z|[-+](?:2[ 0-3]||[0-1][0-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"documentation":"<p>One or more parameter values are not valid.</p>",
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},
"documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
"exception":true

```

```

},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the filter.</p>"
    },
    "Condition":{
      "shape":"InventoryFilterCondition",
      "documentation":"<p>Condition of the filter.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Value of the filter.</p>"
    }
  },
  "documentation":"<p>An inventory filter.</p>"
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    }
  }
}

```

```

    }
  },
  "documentation": "<p>Details about the issuer of a license.</p>"
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    },
    "KeyFingerprint":{
      "shape":"String",
      "documentation":"<p>Issuer key fingerprint.</p>"
    }
  },
  "documentation":"<p>Details associated with the issuer of a license.</p>"
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",

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```

    "documentation": "<p>Home Region of the license.</p>"
  },
  "Status": {
    "shape": "LicenseStatus",
    "documentation": "<p>License status.</p>"
  },
  "Validity": {
    "shape": "DatetimeRange",
    "documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  },
  "Beneficiary": {
    "shape": "String",
    "documentation": "<p>License beneficiary.</p>"
  },
  "Entitlements": {
    "shape": "EntitlementList",
    "documentation": "<p>License entitlements.</p>"
  },
  "ConsumptionConfiguration": {
    "shape": "ConsumptionConfiguration",
    "documentation": "<p>Configuration for consumption of the license.</p>"
  },
  "LicenseMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>License metadata.</p>"
  },
  "CreateTime": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>License creation time.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>License version.</p>"
  }
},
"documentation": "<p>Software license that is managed in License Manager.</p>"
},
"LicenseConfiguration": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {
      "shape": "String",
      "documentation": "<p>Unique ID of the license configuration.</p>"
    },
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},

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```

"Name":{
  "shape":"String",
  "documentation":"<p>Name of the license configuration.</p>"
},
"Description":{
  "shape":"String",
  "documentation":"<p>Description of the license configuration.</p>"
},
"LicenseCountingType":{
  "shape":"LicenseCountingType",
  "documentation":"<p>Dimension to use to track the license inventory.</p>"
},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses managed by the license configuration.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Number of available licenses as a hard limit.</p>"
},
"DisassociateWhenNotFound":{
  "shape":"BoxBoolean",
  "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses consumed. </p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>Status of the license configuration.</p>"
},
"OwnerAccountId":{
  "shape":"String",
  "documentation":"<p>Account ID of the license
configuration's owner.</p>"
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":"<p>Summaries for licenses consumed by various resources.</p>"
},
"ManagedResourceSummaryList":{
  "shape":"ManagedResourceSummaryList",
  "documentation":"<p>Summaries for managed resources.</p>"
}

```

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    },
    "ProductInformationList":{
      "shape":"ProductInformationList",
      "documentation":"<p>Product information.</p>"
    },
    "AutomatedDiscoveryInformation":{
      "shape":"AutomatedDiscoveryInformation",
      "documentation":"<p>Automated discovery information.</p>"
    }
  },
  "documentation":"<p>A license configuration is an abstraction of a customer license agreement that can be
consumed and enforced by License Manager. Components include specifications for the license type (licensing by
instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with
a host), and the number of licenses purchased and used.</p>"
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of server resource.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was associated with the resource.</p>"
    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of
AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  },
  "documentation":"<p>Describes an association with a license configuration.</p>"
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},

```



```

"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceStatus":{
      "shape":"String",
      "documentation":"<p>Status of the resource.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of
the account that owns the resource.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was initially associated with the resource.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",

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"members":{
  "UsageOperation":{
    "shape":"UsageOperation",
    "documentation":"<p>The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
  }
},
"documentation":"<p>Information about a license type conversion task.</p>"
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>The ID of the license type conversion task.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource associated with the license type
conversion task.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type this conversion task converted from.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type this conversion task converted to.</p>"
    },
    "Status":{
      "shape":"LicenseConversionTaskStatus",
      "documentation":"<p>The status of the conversion task.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for the conversion task.</p>"
    },
    "StartTime":{
      "shape":"DateTime",
      "documentation":"<p>The time the conversion task was started at.</p>"
    },
    "LicenseConversionTime":{
      "shape":"DateTime",
      "documentation":"<p>The time the usage operation value of the resource was changed.</p>"
    }
  }
}

```

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    },
    "EndTime":{
      "shape":"DateTime",
      "documentation":"<p>The time the conversion task was completed.</p>"
    }
  },
  "documentation":"<p>Information about a
license type conversion task.</p>"
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^\\{t-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",

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"members":{
  "ResourceArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
  },
  "ResourceType":{
    "shape":"ResourceType",
    "documentation":"<p>Resource type.</p>"
  },
  "ErrorMessage":{
    "shape":"String",
    "documentation":"<p>Error message.</p>"
  },
  "FailureTime":{
    "shape":"DateTime",
    "documentation":"<p>Failure time.</p>"
  },
  "OperationName":{
    "shape":"String",
    "documentation":"<p>Name of the operation.</p>"
  },
  "ResourceOwnerId":{
    "shape":"String",
    "documentation":"<p>ID of the Amazon Web Services account that owns the resource.</p>"
  },
  "OperationRequestedBy":{
    "shape":"String",
    "documentation":"<p>The requester is \"License Manager Automated Discovery\".</p>"
  },
  "MetadataList":{
    "shape":"MetadataList",
    "documentation":"<p>Reserved.</p>"
  }
},
"documentation":"<p>Describes the failure of a license operation.</p>"
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
}

```

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    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  },
  "documentation":"<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{
      "shape":"EntitlementUsageList",
      "documentation":"<p>License entitlement usages.</p>"
    }
  },
  "documentation":"<p>Describes the entitlement usage associated with a license.</p>"
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",

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    "documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>"
  },
  "MaxResults": {
    "shape": "BoxInteger",
    "documentation": "<p>Maximum
number of results to return in a single call.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
}
},
"ListAssociationsForLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationAssociations": {
      "shape": "LicenseConfigurationAssociations",
      "documentation": "<p>Information about the associations for the license configuration.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListDistributedGrantsRequest": {
  "type": "structure",
  "members": {
    "GrantArns": {
      "shape": "ArnList",
      "documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results.
The following filters are supported:</p>
<ul>
<li><p><code>LicenseArn</code></p></li>
<li><p><code>GrantStatus</code></p></li>
<li><p><code>GranteePrincipalARN</code></p></li>
<li><p><code>ProductSKU</code></p></li>
<li><p><code>LicenseIssuerName</code></p></li>
</ul>"
    }
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  },
  "MaxResults": {
    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}

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    }
  },
  "ListDistributedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{
        "shape":"GrantList",
        "documentation":"<p>Distributed grant details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name of the license configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse":{
    "type":"structure",
    "members":{
      "LicenseOperationFailureList":{
        "shape":"LicenseOperationFailureList",
        "documentation":"<p>License configuration operations that failed.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseConfigurationsRequest":{

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"type":"structure",
"members":{
  "LicenseConfigurationArns":{
    "shape":"StringList",
    "documentation":"<p>Amazon Resource Names (ARN) of the license configurations.</p>"
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  },
  "Filters":{
    "shape":"Filters",
    "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
  }
}
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{
      "shape":"LicenseConfigurations",
      "documentation":"<p>Information about the license configurations.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConversionTasksRequest":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token
for the next set of results.</p>"
    }
  },

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    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "Filters":{
      "shape":"Filters",
      "documentation":"<p> Filters to scope the results. Valid filters are <code>ResourceArns</code> and
<code>Status</code>. </p>"
    }
  }
},
"ListLicenseConversionTasksResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTasks":{
      "shape":"LicenseConversionTasks",
      "documentation":"<p>Information about the license configuration tasks for your account.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseManagerReportGeneratorsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters
to scope the results. The following filters are supported: <p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseManagerReportGeneratorsResponse":{
  "type":"structure",
  "members":{
    "ReportGenerators":{
      "shape":"ReportGeneratorList",

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    "documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
}
},
"ListLicenseSpecificationsForResourceRequest": {
  "type": "structure",
  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse": {
  "type": "structure",
  "members": {
    "LicenseSpecifications": {
      "shape": "LicenseSpecifications",
      "documentation": "<p>License configurations associated with a resource.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseVersionsRequest": {
  "type": "structure",

  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    }
  }
}

```

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    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"LicenseList",
      "documentation":"<p>License details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names
(ARNs) of the licenses.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>"
    }
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  },
  "MaxResults":{
    "shape":"MaxSize100",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  }
}
},

```

```

"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"LicenseList",
      "documentation":"<p>License details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the received license.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{
      "shape":"GrantList",
      "documentation":"<p>Lists the grants the organization has received.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
}

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    }
  },
  "ListReceivedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li> <p>
<code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p>
<code>GranterAccountId</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListReceivedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{
        "shape":"GrantList",
        "documentation":"<p>Received grant details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListReceivedLicensesForOrganizationRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> </ul>"
      },
      "NextToken":{

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    "shape": "String",
    "documentation": "<p>Token for the next set of
results.</p>"
  },
  "MaxResults": {
    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
},
"ListReceivedLicensesForOrganizationResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "shape": "GrantedLicenseList",
      "documentation": "<p>Lists the licenses the organization has received.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedLicensesRequest": {
  "type": "structure",
  "members": {
    "LicenseArns": {
      "shape": "ArnList",
      "documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code>
</p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p>
<code>IssuerName</code> </p> </li> <li> <p> <code>Beneficiary</code> </p> </li> </ul>"
    }
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  },
  "MaxResults": {
    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
},
"ListReceivedLicensesResponse": {

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```

"type":"structure",
"members":{
  "Licenses":{
    "shape":"GrantedLicenseList",
    "documentation":"<p>Received license details.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
}
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"InventoryFilterList",
      "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{
      "shape":"ResourceInventoryList",
      "documentation":"<p>Information about the resources.</p>"
    },
  },
}

```

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    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "Tags":{
        "shape":"TagList",
        "documentation":"<p>Information about the tags.</p>"
      }
    }
  },
  "ListTokensRequest":{
    "type":"structure",
    "members":{
      "TokenIds":{
        "shape":"StringList",
        "documentation":"<p>Token IDs.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </p> </li> </ul>"
      }
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of
results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},

```



```

"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{
      "shape":"TokenList",
      "documentation":"<p>Received token details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"Filters",
      "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p>
<ul>
<li><p><code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
<li><p><code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
<li><p><code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
</li>
</ul>"
    }
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{
      "shape":"LicenseConfigurationUsageList",

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    "documentation": "<p>Information about the license configurations.</p>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of results.</p>"
  }
},
"Location": { "type": "string" },
"Long": { "type": "long" },
"ManagedResourceSummary": {
  "type": "structure",
  "members": {
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount": {
      "shape": "BoxLong",
      "documentation": "<p>Number of resources associated with licenses.</p>"
    }
  }
},
"documentation": "<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList": {
  "type": "list",
  "member": { "shape": "ManagedResourceSummary" }
},
"MaxSize100": {
  "type": "integer",
  "max": 100,
  "min": 1
},
"MaxSize3StringList": {
  "type": "list",
  "member": { "shape": "String" },
  "max": 3
},
"Message": { "type": "string" },
"Metadata": {
  "type": "structure",
  "members": {
    "Name": {
      "shape": "String",
      "documentation": "<p>The key name.</p>"
    }
  }
},
"Value": {
  "shape": "String",

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    "documentation": "<p>The value.</p>"
  },
  "documentation": "<p>Describes key/value pairs.</p>"
},
"MetadataList": {
  "type": "list",
  "member": { "shape": "Metadata" }
},
"NoEntitlementsAllowedException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  }
},
"documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is
reached.</p>",
"exception": true
},
"Options": {
  "type": "structure",
  "members": {
    "ActivationOverrideBehavior": {
      "shape": "ActivationOverrideBehavior",
      "documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.
Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace.
Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code>
parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an
<code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate
a grant without replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p> </dd> </dl>"
    }
  }
},
"documentation": "<p>The options you can specify when you create a new version of a grant, such as activation
override behavior. For more information, see <a href='\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License
Manager User Guide</i>.</p>"
},
"OrganizationConfiguration": {
  "type": "structure",
  "required": ["EnableIntegration"],
  "members": {
    "EnableIntegration": {

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    "shape": "Boolean",
    "documentation": "<p>Enables Organizations integration.</p>"
  }
},

"documentation": "<p>Configuration information for Organizations.</p>"
},
"PrincipalArnList": {
  "type": "list",
  "member": { "shape": "Arn" },
  "max": 1,
  "min": 1
},
"ProductInformation": {
  "type": "structure",
  "required": [
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members": {
    "ResourceType": {
      "shape": "String",
      "documentation": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>.</p>"
    },
    "ProductInformationFilterList": {
      "shape": "ProductInformationFilterList",
      "documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code>
are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.
</p> <p>The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:</p>
<ul> <li> <p> <code>Application Name</code> - The name of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Application Publisher</code> - The publisher of the
application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application Version</code> -
The version of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform
Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p>
<code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.</p> </li> <li>
<p> <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude
from automated discovery. Logical
operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code>
following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is
optional if you are not using values for the key. </p> </li> <li> <p> <code>AccountId</code> - The 12-digit ID of
an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>License Included</code> - The type of license
included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are:

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`sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.  
 The following filters and logical operators are supported when the resource type is `RDS`:  

- `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

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    }
  },
  "documentation": "<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{
      "shape":"String",
      "documentation":"<p>Filter name.</p>"
    },
    "ProductInformationFilterValue":{
      "shape":"StringList",
      "documentation":"<p>Filter value.</p>"
    },
    "ProductInformationFilterComparator":{
      "shape":"String",
      "documentation":"<p>Logical operator.</p>"
    }
  },
  "documentation":"<p>Describes product information filters.</p>"
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{
      "shape":"BoxInteger",

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    "documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>"
  }
},
"documentation": "<p>Details about a provisional configuration.</p>"
},
"RateLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>Too many requests have been submitted. Try again after
a brief wait.</p>",
  "exception": true
},
"ReceivedMetadata": {
  "type": "structure",
  "members": {
    "ReceivedStatus": {
      "shape": "ReceivedStatus",
      "documentation": "<p>Received status.</p>"
    },
    "ReceivedStatusReason": {
      "shape": "StatusReasonMessage",
      "documentation": "<p>Received status reason.</p>"
    },
    "AllowedOperations": {
      "shape": "AllowedOperationList",
      "documentation": "<p>Allowed operations.</p>"
    }
  },
  "documentation": "<p>Metadata associated with received licenses and grants.</p>"
},
"ReceivedStatus": {
  "type": "string",
  "enum": [
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException": {
  "type": "structure",
  "members": {

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    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>This is not the correct Region for the resource. Try again.</p>",
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    }
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration that this generator reports

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on.</p>"
  }
},
"documentation":"<p>Details of the license configuration that this generator reports on.</p>"
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{
      "shape":"Integer",
      "documentation":"<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
    },
    "period":{
      "shape":"ReportFrequencyType",
      "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
    }
  },
  "documentation":"<p>Details about how frequently reports are generated.</p>"
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{
      "shape":"String",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "ReportType":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports that are generated.</p>"
    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>License configuration type for this generator.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Details about how frequently reports are generated.</p>"
    },
    "LicenseManagerReportGeneratorArn":{

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    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
  },
  "LastRunStatus":{
    "shape":"String",
    "documentation":"<p>Status of the
last report generation attempt.</p>"
  },
  "LastRunFailureReason":{
    "shape":"String",
    "documentation":"<p>Failure message for the last report generation attempt.</p>"
  },
  "LastReportGenerationTime":{
    "shape":"String",
    "documentation":"<p>Time the last report was generated at.</p>"
  },
  "ReportCreatorAccount":{
    "shape":"String",
    "documentation":"<p>The Amazon Web Services account ID used to create the report generator.</p>"
  },
  "Description":{
    "shape":"String",
    "documentation":"<p>Description of the report generator.</p>"
  },
  "S3Location":{
    "shape":"S3Location",
    "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
  },
  "CreateTime":{
    "shape":"String",
    "documentation":"<p>Time the report was created.</p>"
  },
  "Tags":{
    "shape":"TagList",
    "documentation":"<p>Tags associated with the report generator.</p>"
  }
},
"documentation":"<p>Describe the details of a report generator.</p>"
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1

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},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String",
      "documentation":"<p>ID of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "Platform":{
      "shape":"String",
      "documentation":"<p>Platform of the resource.</p>"
    },
    "PlatformVersion":{
      "shape":"String",
      "documentation":"<p>Platform version of the resource in the inventory.</p>"
    },
    "ResourceOwningAccountId":{
      "shape":"String",
      "documentation":"<p>ID of the account that owns the resource.</p>"
    }
  },
  "documentation":"<p>Details about a resource.</p>"
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",

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"members":{
  "Message":{"shape":"Message"}
},
"documentation":"<p>Your resource limits have been exceeded.</p>",
"exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The resource cannot be found.</p>",
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{
      "shape":"String",
      "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
    },
    "keyPrefix":{
      "shape":"String",
      "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
    }
  },
  "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The server experienced an internal error. Try again.</p>",
  "exception":true,
  "fault":true
},
"SignedToken":{

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    "type":"string",
    "min":4096
  },
  "StatusReasonMessage":{
    "type":"string",
    "max":400,
    "pattern":"[\\s\\S]+"
  },
  "String":{"type":"string"},
  "StringList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "Tag":{
    "type":"structure",
    "members":{
      "Key":{
        "shape":"String",
        "documentation":"<p>Tag key.</p>"
      },
      "Value":{
        "shape":"String",
        "documentation":"<p>Tag value.</p>"
      }
    },
    "documentation":"<p>Details about a tag for a license configuration.</p>"
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "TagList":{
    "type":"list",
    "member":{"shape":"Tag"}
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "Tags"
    ],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "Tags":{
        "shape":"TagList",

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    "documentation": "<p>One or more tags.</p>"
  }
},
"TagResourceResponse": {
  "type": "structure",
  "members": {
  },
},
"TokenData": {
  "type": "structure",
  "members": {
    "TokenId": {
      "shape": "String",
      "documentation": "<p>Token ID.</p>"
    },
    "TokenType": {
      "shape": "String",
      "documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
    },
    "LicenseArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "ExpirationTime": {
      "shape": "ISO8601DateTime",
      "documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
    },
    "TokenProperties": {
      "shape": "MaxSize3StringList",
      "documentation": "<p>Data specified by the caller.</p>"
    },
    "RoleArns": {
      "shape": "ArnList",
      "documentation": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
    },
    "Status": {
      "shape": "String",
      "documentation": "<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>"
    }
  },
  "documentation": "<p>Describes a token.</p>"
},
"TokenList": {
  "type": "list",
  "member": { "shape": "TokenData" }
}

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},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The digital signature method is unsupported.
Try your request again.</p>",
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "TagKeys":{
      "shape":"TagKeyList",
      "documentation":"<p>Keys identifying the tags to remove.</p>"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
}

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    },
    "LicenseConfigurationStatus":{
      "shape":"LicenseConfigurationStatus",
      "documentation":"<p>New
status of the license configuration.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>New license rule. The only rule that you can add after you create a license configuration
is licenseAffinityToHost.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>New number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>New hard limit of the number of available licenses.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>New name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>New description of the license configuration.</p>"
    },
    "ProductInformationList":{
      "shape":"ProductInformationList",
      "documentation":"<p>New
product information.</p>"
    },
    "DisassociateWhenNotFound":{
      "shape":"BoxBoolean",
      "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
    }
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",

```

```

    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
    },
    "ReportGeneratorName":{
      "shape":"ReportGeneratorName",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "Type":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a
license configuration.</p> </li> </ul>"
    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>The report context.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Frequency by which reports are generated.</p>"
    },
    "ClientToken":{
      "shape":"ClientRequestToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    }
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",

```



```

"required":["ResourceArn"],
"members":{
  "ResourceArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>"
  },
  "AddLicenseSpecifications":{
    "shape":"LicenseSpecifications",
    "documentation":"<p>ARNs of the license configurations to add.</p>"
  },
  "RemoveLicenseSpecifications":{
    "shape":"LicenseSpecifications",
    "documentation":"<p>ARNs of the license configurations to remove.</p>"
  }
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "members":{
    "S3BucketArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager
information is stored.</p>"
    },
    "SnsTopicArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager
alerts.</p>"
    },
    "OrganizationConfiguration":{
      "shape":"OrganizationConfiguration",
      "documentation":"<p>Enables integration with Organizations for cross-account discovery.</p>"
    },
    "EnableCrossAccountsDiscovery":{
      "shape":"BoxBoolean",
      "documentation":"<p>Activates cross-account discovery.</p>"
    }
  }
}
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
  }
}

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},
"UsageOperation":{
  "type":"string",
  "max":50
},
"ValidationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The provided input is not valid. Try your request again.</p>",
  "exception":true
}
},
"documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack

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enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,

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    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"

    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"

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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
}
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

```

```

"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
  }
},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{

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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
  }
},
"params": {
  "Region": "us-isob-east-1",

  "UseFIPS": true,
  "UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
  "error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
  "Region": "us-isob-east-1",
  "UseFIPS": false,
  "UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
  }
},
"params": {
  "Region": "us-isob-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation":
"\"For custom endpoint with region set and fips disabled and dualstack disabled\",
"expect": {
  "endpoint": {
    "url": "https://example.com"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": false,

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    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
}

```



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    ],
    "version": "1.0"
  }
  {
    "pagination": {
      "ListLinuxSubscriptionInstances": {
        "input_token": "NextToken",
        "output_token": "NextToken",
        "limit_key": "MaxResults",
        "result_key": "Instances"
      },
      "ListLinuxSubscriptions": {
        "input_token": "NextToken",
        "output_token": "NextToken",
        "limit_key": "MaxResults",
        "result_key": "Subscriptions"
      }
    }
  }
  {
    "version": "2.0",
    "metadata": {
      "apiVersion": "2018-05-10",
      "endpointPrefix": "license-manager-user-subscriptions",
      "jsonVersion": "1.1",
      "protocol": "rest-json",
      "serviceFullName": "AWS License Manager User Subscriptions",
      "serviceId": "License Manager User Subscriptions",
      "signatureVersion": "v4",
      "signingName": "license-manager-user-subscriptions",
      "uid": "license-manager-user-subscriptions-2018-05-10"
    },
    "operations": {
      "AssociateUser": {
        "name": "AssociateUser",
        "http": {
          "method": "POST",
          "requestUri": "/user/AssociateUser",
          "responseCode": 200
        },
        "input": { "shape": "AssociateUserRequest" },
        "output": { "shape": "AssociateUserResponse" },
        "errors": [
          { "shape": "ServiceQuotaExceededException" },
          { "shape": "ConflictException" },
          { "shape": "ValidationException" },
          { "shape": "ThrottlingException" },
          { "shape": "InternalServerErrorException" },

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    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
  "idempotent":true
},
"DeregisterIdentityProvider":{
  "name":"DeregisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterIdentityProviderRequest"},
  "output":{"shape":"DeregisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
  "idempotent":true
},
"DisassociateUser":{
  "name":"DisassociateUser",
  "http":{
    "method":"POST",
    "requestUri":"/user/DisassociateUser",
    "responseCode":200
  },
  "input":{"shape":"DisassociateUserRequest"},
  "output":{"shape":"DisassociateUserResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},

```

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    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the identity providers for user-based subscriptions.</p>"
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the EC2 instances providing user-based subscriptions.</p>"
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{

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    "method":"POST",
    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},

  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the user-based subscription products available from an identity provider.</p>"
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists user associations for an identity provider.</p>"
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[]
}

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    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Registers an identity provider for user-based subscriptions.</p>",
  "idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},
  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Starts a product subscription for a user with the specified identity provider.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>"
},
"StopProductSubscription":{
  "name":"StopProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},

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    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Stops a product subscription for a user with the specified identity provider.</p>"
},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
  "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Updates additional product configuration settings for the registered identity
provider.</p>",
  "idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>You don't have sufficient access to perform this action.</p>",
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{
      "DirectoryId":{
        "shape":"String",
        "documentation":"<p>The directory ID for an Active Directory identity provider.</p>"
      }
    },
    "documentation":"<p>Details about an Active Directory identity provider.</p>"
  },
  "AssociateUserRequest":{
    "type":"structure",

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"required":[
  "IdentityProvider",
  "InstanceId",
  "Username"
],
"members":{
  "Domain":{
    "shape":"String",
    "documentation":"<p>The domain name of the user.</p>"
  },
  "IdentityProvider":{
    "shape":"IdentityProvider",
    "documentation":"<p>The identity provider of the user.</p>"
  },
  "InstanceId":{
    "shape":"String",
    "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
  },
  "Username":{
    "shape":"String",
    "documentation":"<p>The user name from the identity provider for the user.</p>"
  }
}
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",
      "documentation":"<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
  "exception":true,
  "fault":true
},

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"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p>"
    }
  }
},
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{
      "shape":"IdentityProviderSummary",
      "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
    }
  }
},
"DisassociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the user.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    }
  }
},
"InstanceId":{
  "shape":"String",
  "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
},

```



```

    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider for the user.</p>"
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{
        "shape":"InstanceUserSummary",
        "documentation":"<p>Metadata that describes the associate user operation.</p>"
      }
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Attribute":{
        "shape":"String",
        "documentation":"<p>The name of an attribute to use as a filter.</p>"
      },
      "Operation":{
        "shape":"String",
        "documentation":"<p>The type of search (For example, eq, geq, leq)</p>"
      },
      "Value":{
        "shape":"String",
        "documentation":"<p>Value of the filter.</p>"
      }
    },
    "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "IdentityProvider":{
    "type":"structure",
    "members":{
      "ActiveDirectoryIdentityProvider":{
        "shape":"ActiveDirectoryIdentityProvider",
        "documentation":"<p>An object that details an Active Directory identity provider.</p>"
      }
    }
  },

```

```

"documentation": "<p>Details about an identity provider.</p>",
"union": true
},
"IdentityProviderSummary": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members": {
    "FailureMessage": {
      "shape": "String",
      "documentation": "<p>The failure message associated with an identity provider.</p>"
    },
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>An object that specifies details for the identity provider.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The name of the user-based subscription product.</p>"
    },
    "Settings": {
      "shape": "Settings",
      "documentation": "<p>An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"
    },
    "Status": {
      "shape": "String",
      "documentation": "<p>The status of an identity provider.</p>"
    }
  },
  "documentation": "<p>Describes an identity provider.</p>"
},
"IdentityProviderSummaryList": {
  "type": "list",
  "member": { "shape": "IdentityProviderSummary" }
},
"InstanceSummary": {
  "type": "structure",
  "required": [
    "InstanceId",
    "Products",
    "Status"
  ],
  "members": {

```

```

"InstanceId":{
  "shape":"String",
  "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
},
"LastStatusCheckDate":{
  "shape":"String",
  "documentation":"<p>The date of the last status check.</p>"
},
"Products":{
  "shape":"StringList",
  "documentation":"<p>A list of provided user-based subscription products.</p>"
},
>Status":{
  "shape":"String",
  "documentation":"<p>The status of an EC2 instance resource.</p>"
},
>StatusMessage":{
  "shape":"String",
  "documentation":"<p>The status message for an EC2 instance.</p>"
}
},
"documentation":"<p>Describes an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{
      "shape":"String",
      "documentation":"<p>The date a user was associated with an EC2 instance.</p>"
    },
    "DisassociationDate":{
      "shape":"String",
      "documentation":"<p>The date a user was disassociated from an EC2 instance.</p>"
    },
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the user.</p>"
    }
  },
}

```

```

"IdentityProvider":{
  "shape":"IdentityProvider",
  "documentation":"<p>An object that specifies details for the identity provider.</p>"
},
"InstanceId":{
  "shape":"String",
  "documentation":"<p>The ID
of the EC2 instance, which provides user-based subscriptions.</p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>The status of a user associated with an EC2 instance.</p>"
},
"StatusMessage":{
  "shape":"String",
  "documentation":"<p>The status message for users of an EC2 instance.</p>"
},
"Username":{
  "shape":"String",
  "documentation":"<p>The user name from the identity provider for the user.</p>"
}
},
"documentation":"<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>An exception occurred with the service.</p>",
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
}

```

```

    }
  },
  "ListIdentityProvidersResponse":{
    "type":"structure",
    "required":["IdentityProviderSummaries"],
    "members":{
      "IdentityProviderSummaries":{
        "shape":"IdentityProviderSummaryList",
        "documentation":"<p>Metadata that describes the list identity providers operation.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListInstancesRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>An
array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that
you specify.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListInstancesResponse":{
    "type":"structure",
    "members":{
      "InstanceSummaries":{
        "shape":"InstanceSummaryList",
        "documentation":"<p>Metadata that describes the list instances operation.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
}

```

```

"ListProductSubscriptionsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p>"
    }
  }
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token
for the next set of results.</p>"
    },
    "ProductUserSummaries":{
      "shape":"ProductUserSummaryList",
      "documentation":"<p>Metadata that describes the list product subscriptions operation.</p>"
    }
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",

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```

    "InstanceId"
  ],
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
  },

  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
}
},
"ListUserAssociationsResponse":{
  "type":"structure",
  "members":{
    "InstanceUserSummaries":{
      "shape":"InstanceUserSummaryList",
      "documentation":"<p>Metadata that describes the list user association operation.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
}

```

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"members":{
  "Domain":{
    "shape":"String",
    "documentation":"<p>The domain name of the user.</p>"
  },
  "IdentityProvider":{
    "shape":"IdentityProvider",
    "documentation":"<p>An object that specifies details for the identity provider.</p>"
  },
  "Product":{
    "shape":"String",
    "documentation":"<p>The name of the user-based subscription product.</p>"
  },
  "Status":{
    "shape":"String",
    "documentation":"<p>The status of a product for a user.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for a product for a user.</p>"
  },
  "SubscriptionEndDate":{
    "shape":"String",
    "documentation":"<p>The end date of a subscription.</p>"
  },
  "SubscriptionStartDate":{
    "shape":"String",
    "documentation":"<p>The start date of a subscription.</p>"
  },
  "Username":{
    "shape":"String",
    "documentation":"<p>The user name from the identity provider
of the user.</p>"
  }
},
"documentation":"<p>The summary of the user-based subscription products for a user.</p>"
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{

```



```

"IdentityProvider":{
  "shape":"IdentityProvider",
  "documentation":"<p>An object that specifies details for the identity provider.</p>"
},
"Product":{
  "shape":"String",
  "documentation":"<p>The name of the user-based subscription product.</p>"
},
"Settings":{
  "shape":"Settings",
  "documentation":"<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
}
},
"RegisterIdentityProviderResponse":{

"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
  "IdentityProviderSummary":{
    "shape":"IdentityProviderSummary",
    "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
  }
}
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The resource couldn't be found.</p>",
  "error":{
    "statusCode":404,
    "senderFault":true
  },
  "exception":true
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-([0-9a-z]{8})([0-9a-z]{17})$"
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  }
}

```

```

    },
    "documentation": "<p>The request failed because a service quota is exceeded.</p>",
    "exception": true
  },
  "Settings": {
    "type": "structure",
    "required": [
      "SecurityGroupId",
      "Subnets"
    ],
    "members": {
      "SecurityGroupId": {
        "shape": "SecurityGroup",
        "documentation": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers.</p>"
      },
      "Subnets": {
        "shape": "SettingsSubnetsList",
        "documentation": "<p>The subnets defined for the registered identity provider.</p>"
      }
    },
    "documentation": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC.</p>"
  },
  "SettingsSubnetsList": {
    "type": "list",
    "member": { "shape": "Subnet" },
    "min": 1
  },
  "StartProductSubscriptionRequest": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product",
      "Username"
    ],
    "members": {
      "Domain": {
        "shape": "String",
        "documentation": "<p>The domain name of the user.</p>"
      },
      "IdentityProvider": {
        "shape": "IdentityProvider",
        "documentation": "<p>An object that specifies details for the identity provider.</p>"
      },
      "Product": {
        "shape": "String",

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```

    "documentation": "<p>The name of the user-based subscription product.</p>"
  },
  "Username": {
    "shape": "String",
    "documentation": "<p>The user name from the identity provider of the user.</p>"
  }
},
"StartProductSubscriptionResponse": {
  "type": "structure",
  "required": ["ProductUserSummary"],
  "members": {
    "ProductUserSummary": {
      "shape": "ProductUserSummary",
      "documentation": "<p>Metadata that describes
the start product subscription operation.</p>"
    }
  }
},
"StopProductSubscriptionRequest": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members": {
    "Domain": {
      "shape": "String",
      "documentation": "<p>The domain name of the user.</p>"
    },
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>An object that specifies details for the identity provider.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The name of the user-based subscription product.</p>"
    },
    "Username": {
      "shape": "String",
      "documentation": "<p>The user name from the identity provider for the user.</p>"
    }
  }
},
"StopProductSubscriptionResponse": {
  "type": "structure",
  "required": ["ProductUserSummary"],

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```

"members":{
  "ProductUserSummary":{
    "shape":"ProductUserSummary",
    "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
  }
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The request was denied because of request throttling. Retry the request.</p>",
  "exception":true
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "UpdateSettings"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{
      "shape":"String",

      "documentation":"<p>The name of the user-based subscription product.</p>"
    },
    "UpdateSettings":{
      "shape":"UpdateSettings",
      "documentation":"<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:<p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  }
}

```

```

    }
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{
      "shape":"Subnets",
      "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity to activation servers.</p>"
    },
    "RemoveSubnets":{
      "shape":"Subnets",
      "documentation":"<p>The ID of one or more subnets to remove.</p>"
    },
    "SecurityGroupId":{
      "shape":"SecurityGroup",
      "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoints for activation servers.</p>"
    }
  },
  "documentation":"<p>Updates the registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>A parameter is not valid.</p>",
  "exception":true
}
},
"documentation":"<p>With License Manager, you can create user-based subscriptions to utilize licensed software
with a per user subscription fee on Amazon EC2 instances.</p>"
}

```

```

{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-northeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
      }
    }
  ]
}

```

```

    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-3",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-south-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-south-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-southeast-1",

      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {

```

```

"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-southeast-2.amazonaws.com"
  }
},
"params": {
  "Region": "ap-southeast-2",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-southeast-3.amazonaws.com"
  }
},
"params": {
  "Region": "ap-southeast-3",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation":
"\"For region ca-central-1 with FIPS disabled and DualStack disabled\",
"expect": {
  "endpoint": {
    "url": "https://license-manager.ca-central-1.amazonaws.com"
  }
},
"params": {
  "Region": "ca-central-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.eu-central-1.amazonaws.com"
  }
},
"params": {
  "Region": "eu-central-1",

```



```

    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint":
  {
    "url": "https://license-manager.eu-north-1.amazonaws.com"
  }
},
  "params": {
    "Region": "eu-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-south-1.amazonaws.com"
    }
},
  "params": {
    "Region": "eu-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-1.amazonaws.com"
    }
},
  "params":
  {
    "Region": "eu-west-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
  "expect": {

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```

    "endpoint": {
      "url": "https://license-manager.eu-west-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-3.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-west-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.me-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "me-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "sa-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-2.amazonaws.com"
      }
    }
  }
}

```

```

    }
  },
  "params": {
    "Region": "us-east-2",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}
},
{
  "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},

```

```

{
  "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
  "expect":
{
  "endpoint": {
    "url": "https://license-manager-fips.us-west-2.amazonaws.com"
  }
},
"params": {
  "Region": "us-west-2",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
    }
  },

```

```

"params": {
  "Region": "cn-north-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-northwest-1",
    "UseFIPS": false,
    "UseDualStack":
false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled

```

and DualStack enabled",

```
"expect": {
  "endpoint": {
    "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
  }
},
"params": {
  "Region": "cn-north-1",
  "UseFIPS": false,
  "UseDualStack": true
}
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-west-1",
    "UseFIPS": false,
```

```

    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {

```



```

    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
  }
},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {

"endpoint": {
  "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
  "Region": "us-iso-east-1",
  "UseFIPS": true,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params":
{
  "Region": "us-isob-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

```

```

"expect": {
  "endpoint": {
    "url": "https://example.com"
  }
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": false,
  "UseDualStack": false,
  "Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
  "endpoint": {
    "url": "https://example.com"
  }
},
"params": {
  "UseFIPS": false,
  "UseDualStack": false,
  "Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
  "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": true,
  "UseDualStack": false,
  "Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
  "Region": "us-east-1",
  "UseFIPS": false,
  "UseDualStack": true,
  "Endpoint": "https://example.com"
}
}

```

```

    },
    {
      "documentation": "Missing region",
      "expect": {
        "error": "Invalid Configuration: Missing Region"
      }
    }
  ],
  "version": "1.0"
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",

```

```

    "argv": [
      {
        "ref": "Endpoint"
      }
    ]
  },
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "endpoint": {
        "url": {
          "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
      }
    }
  ]
}

```

```

    },
    "type": "endpoint"

  }
]
},
{
  "conditions": [
    {
      "fn": "isSet",
      "argv": [
        {
          "ref": "Region"
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
          "assign": "PartitionResult"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn":
"booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            },
            {
              "fn": "booleanEquals",
              "argv": [

```

```

        {
            "ref": "UseDualStack"
        },
        true
    ]
}
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],

```

```

        "endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  },
  {
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    "type": "error"
  }
]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",

      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {

"ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    }
  ]
}

```



```

    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
],
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ]
}
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",

```

```

        "argv": [
            {
                "ref": "PartitionResult"
            },
            "supportsDualStack"
        ]
    }
]
},
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
],
{
    "conditions": [],
    "error": "DualStack is enabled but
this partition does not support DualStack",
    "type": "error"
}
],
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",

```

```

        "type": "error"
    }
]
}
AWS Signature Version 4 Test Suite
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{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ]
    }
  ]
}

```

```

    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
        ],
        true
      }
    ]
  }
],
"error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
"type": "error"
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
          ],
          true
        }
      ]
    }
  ],
  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
  "type": "error"
},
{
  "conditions": [],

"endpoint": {
  "url": {
    "ref": "Endpoint"
  },
  "properties": {},

```

```

        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}
],
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "aws.partition",
              "argv": [
                {
                  "ref": "Region"
                }
              ]
            }
          ],
          "assign": "PartitionResult"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                }
              ],
            }
          ],

```

true

```
    ]
  },
  {
    "fn": "booleanEquals",
    "argv": [
      {
        "ref": "UseDualStack"
      },
      true
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsFIPS"
            ]
          }
        ]
      }
    ]
  },
  {
    "fn": "booleanEquals",
    "argv": [
      true,
      {
        "fn": "getAttr",
        "argv": [
          {
            "ref": "PartitionResult"
          },
          "supportsDualStack"
        ]
      }
    ]
  }
]
```

```

    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      }
    ],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
  }
],
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        }
      ],
      "true
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [

```

```

    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            }
          ]
        }
      ],
      "supportsFIPS"
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  }
],
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}
]
},
{
  "conditions": [
    {

```



```

        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseDualStack"
            },
            true
        ]
    },
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",

                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ]
    },
],
"type": "tree",

"rules": [
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]

```

```

        ]
      }
    ]
  },
  {
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
  }
]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}
]
}
]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
]
}
{
  "pagination": {
    "ListAssociationsForLicenseConfiguration": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurationAssociations"
    }
  },

```

```

"ListLicenseConfigurations": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "LicenseConfigurations"
},
"ListLicenseSpecificationsForResource": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "LicenseSpecifications"
},
"ListResourceInventory": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "ResourceInventoryList"
},
"ListUsageForLicenseConfiguration": {
  "input_token": "NextToken",
  "limit_key": "MaxResults",
  "output_token": "NextToken",
  "result_key": "LicenseConfigurationUsageList"
}
}
}
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
  "version": "1.0",
  "examples": {
  }
}
{
  "pagination": {
    "ListIdentityProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    },
    "ListInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",

```

```
"result_key": "InstanceSummaries"
},
"ListProductSubscriptions": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "ProductUserSummaries"
},
"ListUserAssociations": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "InstanceUserSummaries"
}
}
}
```

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```
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10"
  },
  "operations": {
    "GetServiceSettings": {
      "name": "GetServiceSettings",
      "http": {
        "method": "POST",
        "requestUri": "/subscription/GetServiceSettings",
        "responseCode": 200
      },
      "input": { "shape": "GetServiceSettingsRequest" },
    }
  }
}
```

```

"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
  {"shape":"InternalServerError"},
  {"shape":"ThrottlingException"},
  {"shape":"ValidationException"}
],
"documentation":"<p>Lists the Linux subscriptions service settings.</p>",
"idempotent":true
},
"ListLinuxSubscriptionInstances":{"
"name":"ListLinuxSubscriptionInstances",
"http":{"
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptionInstances",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
"output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
"errors":[
{"shape":"InternalServerError"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":"<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux
subscriptions.</p>",
"idempotent":true
},
"ListLinuxSubscriptions":{"
"name":"ListLinuxSubscriptions",
"http":{"
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptions",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionsRequest"},
"output":{"shape":"ListLinuxSubscriptionsResponse"},
"errors":[
{"shape":"InternalServerError"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":"<p>Lists the Linux subscriptions that have been discovered. If you have linked your
organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
"idempotent":true
},
"UpdateServiceSettings":{"
"name":"UpdateServiceSettings",
"http":{"

```

```

    "method":"POST",
    "requestUri":"/subscription/UpdateServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Updates the service settings for Linux subscriptions.</p>",
  "idempotent":true
}
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>The type of name to filter by.</p>"
      },
      "Operator":{
        "shape":"Operator",
        "documentation":"<p>An operator for filtering results.</p>"
      },
      "Values":{
        "shape":"StringList",
        "documentation":"<p>One or more values for the name to filter by.</p>"
      }
    }
  },
  "documentation":"<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>"
},
"FilterList":{

```

```

    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{
        "shape":"StringList",
        "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>Lists the settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      },
      "Status":{
        "shape":"Status",
        "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
      },
      "StatusMessage":{
        "shape":"StringMap",
        "documentation":"<p>A message which details the Linux subscriptions service settings current status.</p>"
      }
    }
  },
  "Instance":{
    "type":"structure",
    "members":{
      "AccountID":{
        "shape":"String",
        "documentation":"<p>The account ID which owns the instance.</p>"
      },
      "AmiId":{
        "shape":"String",
        "documentation":"<p>The AMI ID used to launch the instance.</p>"
      },
      "InstanceID":{
        "shape":"String",

```

```

    "documentation": "<p>The instance ID of the resource.</p>"
  },
  "InstanceType": {
    "shape": "String",
    "documentation": "<p>The instance type of the resource.</p>"
  },
  "LastUpdatedTime": {
    "shape": "String",
    "documentation": "<p>The time in which the last discovery updated the instance details.</p>"
  },
  "ProductCode": {
    "shape": "ProductCodeList",
    "documentation": "<p>The product code for the instance. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
  },
  "Region": {
    "shape": "String",
    "documentation": "<p>The Region the instance is running in.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>The status of the instance.</p>"
  },
  "SubscriptionName": {
    "shape": "String",
    "documentation": "<p>The name of the subscription being used by the instance.</p>"
  },
  "UsageOperation": {
    "shape": "String",
    "documentation": "<p>The usage operation of the instance. For more information, see For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i>.</p>"
  }
},
"documentation": "<p>Details discovered information about a running instance using Linux subscriptions.</p>"
},
"InstanceList": {
  "type": "list",
  "member": { "shape": "Instance" }
},
"InternalServerError": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  }
},
"documentation": "<p>An exception occurred with the service.</p>",

```

```

"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{
      "shape":"OrganizationIntegration",
      "documentation":"<p>Details if you
have enabled resource discovery across your accounts in Organizations.</p>"
    },
    "SourceRegions":{
      "shape":"StringList",
      "documentation":"<p>The Regions in which to discover data for Linux subscriptions.</p>"
    }
  },
  "documentation":"<p>Lists the settings defined for discovering Linux subscriptions.</p>"
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of <code>AmiID</code>
with an optional operator to see subscriptions that match, partially match, or don't match a certain Amazon Machine
Image (AMI) ID.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>AmiID</code> </p> </li>
<li> <p> <code>InstanceID</code> </p> </li>
<li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p>
<code>Region</code> </p> </li> <li> <p> <code>UsageOperation</code> </p> </li> <li> <p>
<code>ProductCode</code> </p> </li> <li> <p> <code>InstanceType</code> </p> </li> </ul> <p>The valid
Operators for this filter are:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code>
</p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
}

```

```

    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  },
  "documentation":"<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{
      "shape":"InstanceList",
      "documentation":"<p>An array that contains instance objects.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of
<code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't
match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul>
<li><p> <code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li>
<p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p>
<code>Notequal</code> </p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionsRequestNextTokenString",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
}

```

```

    },
    "documentation": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
  },
  "ListLinuxSubscriptionsRequestNextTokenString": {
    "type": "string",
    "max": 16384,
    "min": 1
  },
  "ListLinuxSubscriptionsResponse": {
    "type": "structure",
    "members": {
      "NextToken": {
        "shape": "String",
        "documentation": "<p>Token
for the next set of results.</p>"
      },
      "Subscriptions": {
        "shape": "SubscriptionList",
        "documentation": "<p>An array that contains subscription objects.</p>"
      }
    }
  },
  "Operator": {
    "type": "string",
    "enum": [
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max": 20,
    "min": 1
  },
  "OrganizationIntegration": {
    "type": "string",
    "enum": [
      "Enabled",
      "Disabled"
    ]
  },
  "ProductCodeList": {
    "type": "list",
    "member": { "shape": "String" }
  },
  "Status": {
    "type": "string",
    "enum": [
      "InProgress",

```



```

    "Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{"
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{"
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{"
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{"
  "type":"structure",
  "members":{"
    "InstanceCount":{"
      "shape":"BoxLong",
      "documentation":"<p>The total amount of running instances using this subscription.</p>"
    },
    "Name":{"
      "shape":"String",
      "documentation":"<p>The name of the subscription.</p>"
    },
    "Type":{"
      "shape":"String",
      "documentation":"<p>The type of subscription. The type can be subscription-included with Amazon EC2,
Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain
subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon
EC2 or BYOS.</p>"
    }
  },
  "documentation":"<p>An object which details a discovered Linux subscription.</p>"
},
"SubscriptionList":{"
  "type":"list",
  "member":{"shape":"Subscription"}
},
"ThrottlingException":{"

```

```

"type":"structure",
"members":{
  "message":{"shape":"String"}
},
"documentation":"<p>The request was denied due to request throttling.</p>",
"exception":true
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"required":[
  "LinuxSubscriptionsDiscovery",
  "LinuxSubscriptionsDiscoverySettings"
],
"members":{
  "AllowUpdate":{
    "shape":"Boolean",
    "documentation":"<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you
allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
  },
  "LinuxSubscriptionsDiscovery":{
    "shape":"LinuxSubscriptionsDiscovery",
    "documentation":"<p>Describes if the discovery of Linux subscriptions is enabled.</p>"
  },
  "LinuxSubscriptionsDiscoverySettings":{
    "shape":"LinuxSubscriptionsDiscoverySettings",
    "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
  }
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
  "HomeRegions":{
    "shape":"StringList",
    "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
  },
  "LinuxSubscriptionsDiscovery":{
    "shape":"LinuxSubscriptionsDiscovery",
    "documentation":"<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
  },
  "LinuxSubscriptionsDiscoverySettings":{
    "shape":"LinuxSubscriptionsDiscoverySettings",
    "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled,
and which Regions data will be aggregated from.</p>"
  }
},

```

```

"Status":{
  "shape":"Status",
  "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
},
"StatusMessage":{
  "shape":"StringMap",
  "documentation":"<p>A message which details the Linux subscriptions service settings current status.</p>"
}
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The provided input is not valid. Try your request again.</p>",
  "exception":true
}
},
"documentation":"<p>With License Manager, you can discover and track your commercial Linux subscriptions on
running Amazon EC2 instances.</p>"
}

```

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{  
  "version": "1.0",  
  "parameters": {  
    "Region": {  
      "builtIn": "AWS::Region",  
      "required": false,  
      "documentation": "The AWS region used to dispatch the request.",  
      "type": "String"
```

```

    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
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      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
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  "rules": [
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        {
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          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
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      ]
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  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
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              "ref": "UseFIPS"
            },
            true
          ]
        }
      ]
    }
  ]
}

```



```

        ]
      }
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    "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
    "type": "error"
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    "conditions": [
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          true
        ]
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    "type": "error"
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    "type": "endpoint"
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      "argv": [
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```

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        "fn": "aws.partition",
        "argv": [
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            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
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    "rules": [
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        "conditions": [
          {
            "fn":
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            "argv": [
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                "ref": "UseFIPS"
              },
              true
            ],
            "fn": "booleanEquals",
            "argv": [
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                "ref": "UseDualStack"
              },
              true
            ]
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        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",

```

```

        "argv": [
            {
                "ref": "PartitionResult"
            },
            "supportsFIPS"
        ]
    },
    {
        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "PartitionResult"
            },
            "supportsDualStack"
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
],
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    "type": "error"
}
],
{

```

```

"conditions": [
  {
    "fn": "booleanEquals",
"argv": [
  {
    "ref": "UseFIPS"
  },
  true
]
}
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
"ref": "PartitionResult"
            },
            "supportsFIPS"
          ]
        }
      ]
    }
  },
  "type": "tree",
  "rules": [
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      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
},
{
  "conditions": [],

```

```

        "error": "FIPS is enabled but this partition does not support FIPS",
        "type": "error"
    }
]
},
{
    "conditions": [
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            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type":
"tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
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        }
    ]
}

],
"type": "tree",
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        "conditions": [],
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            "properties": {},
            "headers": {}
        },
    },

```

```

        "type": "endpoint"
      }
    ]
  },
  {
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",

    "type": "error"
  }
],
},
{
  "conditions": [],
  "endpoint": {
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    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
]
}
],
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
{
  "ResponseMetadata": {
    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",

```

```

        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
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    "params": {
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        "UseDualStack": true
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},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

```

```

        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
    }
},
"params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": true
}
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
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        }
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        "UseFIPS": true,
        "UseDualStack": false
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{
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        }
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    "params": {
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        "UseFIPS": false,
        "UseDualStack": true
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{
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    },
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    }
},

```



```

{
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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
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    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
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  "expect": {
    "endpoint": {
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    "UseDualStack": true
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    "UseDualStack": true
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    "UseDualStack": false
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  "params": {
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    "UseFIPS": false,
    "UseDualStack": true
  }
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    }
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  "params": {
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    "UseDualStack": true
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    "UseDualStack": false
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    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
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    }
  },
  "params": {
    "Region": "us-isob-east-1",

```

```

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        "UseDualStack": false
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},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
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        }
    },
    "params": {
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        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
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        }
    },
    "params": {
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        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
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    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
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        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
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    "expect": {

```

```
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    "UseFIPS": false,
    "UseDualStack": true,
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  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
},
"version": "1.0"
}
```

## 1.527 aws-cli 1.32.42

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# 1.528 gnutls 3.7.1-5+deb11u4

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#####

```
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## version 0.1  
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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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