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X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
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<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
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</div>
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/**
* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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****
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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1.4 apr-util 1.6.1

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1.8 bind 9.15.1

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```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>
```

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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```
zone isc.license.fastrpz.com {
  masters port 53 {
     KEY farsight_fastrpz_license 104.244.14.176;
     KEY farsight_fastrpz_license 2620:11c:f008::176;
  };
};

key farsight_fastrpz_license {
  algorithm hmac-sha256; secret "f405d02b4c8af54855fcebc1";
};
```

1.9 bmon 4.0

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1.10 boost 1.55.0

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1.11 bzip2 1.0.8

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.12 c-ares 1.15.0

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1.15 coreutils 8.30

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.16 cracklib 2.9.6

1.16.1 Available under license :

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was

released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
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> not
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> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.

> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.

>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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^L

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^L
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1.17 curl 7.64.0

1.17.1 Available under license :

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==========

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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
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libssh2

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1.18 cyrus-sasl 2.1.27

1.18.1 Available under license :

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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* Tim Martin
* Rob Earhart
* Rob Siemborski
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1.24 diffutils 3.7

1.24.1 Available under license :

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1.26 dnsmasq 2.79

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#

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# NOTE: Building the i18n targets requires GNU-make


# Variables you may well want to override.

PREFIX       = /usr/local
BINDIR       = $(PREFIX)/sbin
MANDIR       = $(PREFIX)/share/man
LOCALEDIR    = $(PREFIX)/share/locale
BUILDDIR     = $(SRC)
DESTDIR      =
CFLAGS       = -Wall -W -O2
LDFLAGS      =
COPTS        =
RPM_OPT_FLAGS =
LIBS         =

######################################################################

# Variables you might want to override.

PKG_CONFIG = pkg-config
INSTALL    = install
MSGMERGE   = msgmerge
MSGFMT     = msgfmt
XGETTEXT   = xgettext

SRC = src
PO  = po
MAN = man

######################################################################

# pmake way. (NB no spaces to keep gmake 3.82 happy)
top!=pwd
```

```
# GNU make way.
top?=$(CURDIR)

dbus_cflags =   `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --cflags dbus-1`
dbus_libs =     `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --libs dbus-1`
idn_cflags =    `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --cflags libidn`
idn_libs =      `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --libs libidn`
idn2_cflags =   `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --cflags libidn2`
idn2_libs =     `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --libs libidn2`
ct_cflags =     `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags
libnetfilter_conntrack`
ct_libs =       `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --libs
libnetfilter_conntrack`
lua_cflags =    `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --cflags lua5.2`
lua_libs =      `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --libs lua5.2`
nettle_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --cflags nettle
hogweed`
nettle_libs =   `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --libs nettle hogweed`
gmp_libs =      `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC NO_GMP --copy -lgmp`
sunos_libs =    `if uname | grep SunOS >/dev/null 2>&1; then echo -lsocket -lnsl -lposix4; fi`
version =     -DVERSION='\"`$(top)/bld/get-version $(top)`\"'

sum?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum
2>/dev/null || md5 ) | cut -f 1 -d ' ')
sum!=$(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null ||
md5 ) | cut -f 1 -d ' '
copts_conf = .copts_$(sum)

objs = cache.o rfc1035.o util.o option.o forward.o network.o \
    dnsmasq.o dhcp.o lease.o rfc2131.o netlink.o dbus.o bpf.o \
    helper.o tftp.o log.o conntrack.o dhcp6.o rfc3315.o \
    dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o \
    domain.o dnssec.o blockdata.o tables.o loop.o inotify.o \
    poll.o rrfilter.o edns0.o arp.o crypto.o

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h \
    dns-protocol.h radv-protocol.h ip6addr.h

all : $(BUILDDIR)
 @cd $(BUILDDIR) && $(MAKE) \
top="$(top)" \
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \
-f $(top)/Makefile dnsmasq

mostly_clean :
 rm -f $(BUILDDIR)/*.mo $(BUILDDIR)/*.pot
 rm -f $(BUILDDIR)/.copts_* $(BUILDDIR)/*.o $(BUILDDIR)/dnsmasq.a $(BUILDDIR)/dnsmasq
```

```
clean : mostly_clean
 rm -f $(BUILDDIR)/dnsmasq_baseline
 rm -f core */core
 rm -f *~ contrib/*/*~ */*~

install : all install-common

install-common :
 $(INSTALL) -d $(DESTDIR)$(BINDIR) -d $(DESTDIR)$(MANDIR)/man8
 $(INSTALL) -m 644 $(MAN)/dnsmasq.8 $(DESTDIR)$(MANDIR)/man8
 $(INSTALL) -m 755 $(BUILDDIR)/dnsmasq $(DESTDIR)$(BINDIR)

all-i18n : $(BUILDDIR)
 @cd $(BUILDDIR) && $(MAKE) \
top="$(top)" \
i18n=-DLOCALEDIR=\'\"$(LOCALEDIR)\"\' \
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)"  \
-f $(top)/Makefile dnsmasq
 for f in `cd $(PO); echo *.po`; do \
  cd $(top) && cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile $${f%.po}.mo; \
 done

install-i18n : all-i18n install-common
 cd $(BUILDDIR); $(top)/bld/install-mo $(DESTDIR)$(LOCALEDIR) $(INSTALL)
 cd $(MAN); ../bld/install-man $(DESTDIR)$(MANDIR) $(INSTALL)

merge :
 @cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile dnsmasq.pot
 for f in `cd $(PO); echo *.po`; do \
  echo -n msgmerge $(PO)/$$f && $(MSGMERGE) --no-wrap -U $(PO)/$$f $(BUILDDIR)/dnsmasq.pot; \
 done

# Canonicalise .po file.
%.po :
 @cd $(BUILDDIR) && $(MAKE) -f $(top)/Makefile dnsmasq.pot
 mv $(PO)/$*.po $(PO)/$*.po.orig && $(MSGMERGE) --no-wrap $(PO)/$*.po.orig $(BUILDDIR)/dnsmasq.pot
>$(PO)/$*.po;

$(BUILDDIR):
 mkdir -p $(BUILDDIR)

# rules below are helpers for size tracking

baseline : mostly_clean all
 @cd $(BUILDDIR) && \
   mv dnsmasq dnsmasq_baseline
```

```
bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean all
 @cd $(BUILDDIR) && \
       $(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq; \
       size dnsmasq_baseline dnsmasq

# rules below are targets in recursive makes with cwd=$(BUILDDIR)

$(copts_conf): $(hdrs)
 @rm -f *.o .copts_*
 @touch $@

$(objs:.o=.c) $(hdrs):
 ln -s $(top)/$(SRC)/$@ .

$(objs): $(copts_conf) $(hdrs)

.c.o:
 $(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<

dnsmasq : $(objs)
 $(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)

dnsmasq.pot : $(objs:.o=.c) $(hdrs)
 $(XGETTEXT) -d dnsmasq --foreign-user --omit-header --keyword=_ -o $@ -i $(objs:.o=.c)

%.mo : $(top)/$(PO)/%.po dnsmasq.pot
 $(MSGMERGE) -o - $(top)/$(PO)/$*.po dnsmasq.pot | $(MSGFMT) -o $*.mo -

.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck
/* dnsmasq is Copyright (c) 2000-2018 Simon Kelley

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*/

#include "dnsmasq.h"
```

```
/* Time between forced re-loads from kernel. */
#define INTERVAL 90

#define ARP_MARK  0
#define ARP_FOUND 1  /* Confirmed */
#define ARP_NEW   2  /* Newly created */
#define ARP_EMPTY 3  /* No MAC addr */

struct arp_record {
 unsigned short hwlen, status;
 int family;
 unsigned char hwaddr[DHCP_CHADDR_MAX];
 struct all_addr addr;
 struct arp_record *next;
};

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
{
 struct arp_record *arp;

 (void)parmv;

 if (maclen > DHCP_CHADDR_MAX)
   return 1;

#ifndef HAVE_IPV6
 if (family != AF_INET)
   return 1;
#endif

 /* Look for existing entry */
 for (arp = arps; arp; arp = arp->next)
   {
     if (family != arp->family || arp->status == ARP_NEW)
 continue;

     if (family == AF_INET)
 {
   if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
     continue;
 }
#ifdef HAVE_IPV6
     else
 {
   if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
```

```
    continue;
 }
#endif

    if (arp->status == ARP_EMPTY)
 {
  /* existing address, was negative. */
  arp->status = ARP_NEW;
  arp->hwlen = maclen;
  memcpy(arp->hwaddr, mac, maclen);
 }
    else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
 /* Existing entry matches - confirm. */
 arp->status = ARP_FOUND;
    else
 continue;

    break;
  }

 if (!arp)
  {
    /* New entry */
    if (freelist)
 {
  arp = freelist;
  freelist = freelist->next;
 }
    else if (!(arp = whine_malloc(sizeof(struct arp_record))))
 return 1;

    arp->next = arps;
    arps = arp;
    arp->status = ARP_NEW;
    arp->hwlen = maclen;
    arp->family = family;
    memcpy(arp->hwaddr, mac, maclen);
    if (family == AF_INET)
 arp->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
#ifdef HAVE_IPV6
    else
 memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif
  }

 return 1;
}
```

```
/* If in lazy mode, we cache absence of ARP entries. */
int find_mac(union mysockaddr *addr, unsigned char *mac, int lazy, time_t now)
{
 struct arp_record *arp, *tmp, **up;
 int updated = 0;

again:

 /* If the database is less then INTERVAL old, look in there */
 if (difftime(now, last) < INTERVAL)
   {
     /* addr == NULL -> just make cache up-to-date */
     if (!addr)
 return 0;

     for (arp = arps; arp; arp = arp->next)
 {
   if (addr->sa.sa_family != arp->family)
     continue;

   if (arp->family == AF_INET &&
       arp->addr.addr.addr4.s_addr != addr->in.sin_addr.s_addr)
     continue;

#ifdef HAVE_IPV6
   if (arp->family == AF_INET6 &&
       !IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin6_addr))
     continue;
#endif

   /* Only accept positive entries unless in lazy mode. */
   if (arp->status != ARP_EMPTY || lazy || updated)
     {
       if (mac && arp->hwlen != 0)
  memcpy(mac, arp->hwaddr, arp->hwlen);
       return arp->hwlen;
     }
 }
   }

 /* Not found, try the kernel */
 if (!updated)
    {
      updated = 1;
      last = now;

      /* Mark all non-negative entries */
      for (arp = arps; arp; arp = arp->next)
```

```
 if (arp->status != ARP_EMPTY)
   arp->status = ARP_MARK;

     iface_enumerate(AF_UNSPEC, NULL, filter_mac);

     /* Remove all unconfirmed entries to old list. */
     for (arp = arps, up = &arps; arp; arp = tmp)
 {
   tmp = arp->next;

   if (arp->status == ARP_MARK)
     {
       *up = arp->next;
       arp->next = old;
       old = arp;
     }
   else
     up = &arp->next;
 }

     goto again;
   }

/* record failure, so we don't consult the kernel each time
   we're asked for this address */
if (freelist)
  {
    arp = freelist;
    freelist = freelist->next;
  }
else
  arp = whine_malloc(sizeof(struct arp_record));

if (arp)
  {
    arp->next = arps;
    arps = arp;
    arp->status = ARP_EMPTY;
    arp->family = addr->sa.sa_family;
    arp->hwlen = 0;

    if (addr->sa.sa_family == AF_INET)
 arp->addr.addr.addr4.s_addr = addr->in.sin_addr.s_addr;
#ifdef HAVE_IPV6
    else
 memcpy(&arp->addr.addr.addr6, &addr->in6.sin6_addr, IN6ADDRSZ);
#endif
  }
```

```
 return 0;
}

int do_arp_script_run(void)
{
 struct arp_record *arp;

 /* Notify any which went, then move to free list */
 if (old)
   {
#ifdef HAVE_SCRIPT
    if (option_bool(OPT_SCRIPT_ARP))
 queue_arp(ACTION_ARP_DEL, old->hwaddr, old->hwlen, old->family, &old->addr);
#endif
    arp = old;
    old = arp->next;
    arp->next = freelist;
    freelist = arp;
    return 1;
   }

 for (arp = arps; arp; arp = arp->next)
   if (arp->status == ARP_NEW)
    {
#ifdef HAVE_SCRIPT
 if (option_bool(OPT_SCRIPT_ARP))
   queue_arp(ACTION_ARP, arp->hwaddr, arp->hwlen, arp->family, &arp->addr);
#endif
 arp->status = ARP_FOUND;
 return 1;
    }

 return 0;
}
```

Q: Why does dnsmasq open UDP ports >1024 as well as port 53.
  Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream
  nameserver(s). Queries from dnsmasq to upstream nameservers are sent
  from these ports and replies received to them. The reason for doing this is
  that most firewall setups block incoming packets _to_ port 53, in order
  to stop DNS queries from the outside world. If dnsmasq sent its queries
  from port 53 the replies would be _to_ port 53 and get blocked.

  This is not a security hole since dnsmasq will only accept replies to that

port: queries are dropped. The replies must be to outstanding queries
which dnsmasq has forwarded, otherwise they are dropped too.

Addendum: dnsmasq now has the option "query-port" (-Q), which allows
you to specify the UDP port to be used for this purpose. If not
specified, the operating system will select an available port number
just as it did before.

Second addendum: following the discovery of a security flaw in the
DNS protocol, dnsmasq from version 2.43 has changed behavior. It
now uses a new, randomly selected, port for each query. The old
default behaviour (use one port allocated by the OS) is available by
setting --query-port=0, and setting the query port to a positive
value still works. You should think hard and know what you are
doing before using either of these options.

Q: Why doesn't dnsmasq support DNS queries over TCP? Don't the RFC's specify
that?

A: Update: from version 2.10, it does. There are a few limitations:
data obtained via TCP is not cached, and source-address
or query-port specifications are ignored for TCP.

Q: When I send SIGUSR1 to dump the contents of the cache, some entries have
no IP address and are for names like mymachine.mydomain.com.mydomain.com.
What are these?

A: They are negative entries: that's what the N flag means. Dnsmasq asked
an upstream nameserver to resolve that address and it replied "doesn't
exist, and won't exist for <n> hours" so dnsmasq saved that information so
that if _it_ gets asked the same question it can answer directly without
having to go back to the upstream server again. The strange repeated domains
result from the way resolvers search short names. See "man resolv.conf" for
details.

Q: Will dnsmasq compile/run on non-Linux systems?

A: Yes, there is explicit support for *BSD and MacOS X and Solaris.
There are start-up scripts for MacOS X Tiger and Panther
in /contrib. Dnsmasq will link with uclibc to provide small
binaries suitable for use in embedded systems such as
routers. (There's special code to support machines with flash
filesystems and no battery-backed RTC.)
If you encounter make errors with *BSD, try installing gmake from
ports and building dnsmasq with "make MAKE=gmake"
For other systems, try altering the settings in config.h.

Q: My company's nameserver knows about some names which aren't in the public DNS. Even though I put it first in /etc/resolv.conf, it doesn't work: dnsmasq seems not to use the nameservers in the order given. What am I doing wrong?

A: By default, dnsmasq treats all the nameservers it knows about as equal: it picks the one to use using an algorithm designed to avoid nameservers which aren't responding. To make dnsmasq use the servers in order, give it the -o flag. If you want some queries sent to a special server, think about using the -S flag to give the IP address of that server, and telling dnsmasq exactly which domains to use the server for.

Q: OK, I've got queries to a private nameserver working, now how about reverse queries for a range of IP addresses?

A: Use the standard DNS convention of <reversed address>.in-addr.arpa. For instance to send reverse queries on the range 192.168.0.0 to 192.168.0.255 to a nameserver at 10.0.0.1 do
server=/0.168.192.in-addr.arpa/10.0.0.1
Note that the "bogus-priv" option take priority over this option, so the above will not work when the bogus-priv option is set.

Q: Dnsmasq fails to start with an error like this: "dnsmasq: bind failed: Cannot assign requested address". What's the problem?

A: This has been seen when a system is bringing up a PPP interface at boot time: by the time dnsmasq start the interface has been created, but not brought up and assigned an address. The easiest solution is to use --interface flags to specify which interfaces dnsmasq should listen on. Since you are unlikely to want dnsmasq to listen on a PPP interface and offer DNS service to the world, the problem is solved.

Q: I'm running on BSD and dnsmasq won't accept long options on the command line.

A: Dnsmasq when built on some BSD systems doesn't use GNU getopt by default. You can either just use the single-letter options or change config.h and the Makefile to use getopt-long. Note that options in /etc/dnsmasq.conf must always be the long form, on all platforms.

Q: Names on the internet are working fine, but looking up local names from /etc/hosts or DHCP doesn't seem to work.

A: Resolver code sometime does strange things when given names without any dots in. Win2k and WinXP may not use the DNS at all and just

try and look up the name using WINS. On unix look at "options ndots:" in "man resolv.conf" for details on this topic. Testing lookups using "nslookup" or "dig" will work, but then attempting to run "ping" will get a lookup failure, appending a dot to the end of the hostname will fix things. (ie "ping myhost" fails, but "ping myhost." works. The solution is to make sure that all your hosts have a domain set ("domain" in resolv.conf, or set a domain in your DHCP server, see below for Windows XP and Mac OS X). Any domain will do, but "localnet" is traditional. Now when you resolve "myhost" the resolver will attempt to look up "myhost.localnet" so you need to have dnsmasq reply to that name. The way to do that is to include the domain in each name on /etc/hosts and/or to use the --expand-hosts and --domain options.

Q: How do I set the DNS domain in Windows XP or MacOS X (ref: previous question)?

A: for XP, Control Panel > Network Connections > { Connection to gateway / DNS } > Properties > { Highlight TCP/IP } > Properties > Advanced > DNS Tab > DNS suffix for this connection:

A: for OS X, System Preferences > Network > {Connection to gateway / DNS } > Search domains:

Q: Can I get dnsmasq to save the contents of its cache to disk when I shut my machine down and re-load when it starts again?

A: No, that facility is not provided. Very few names in the DNS have their time-to-live set for longer than a few hours so most of the cache entries would have expired after a shutdown. For longer-lived names it's much cheaper to just reload them from the upstream server. Note that dnsmasq is not shut down between PPP sessions so go off-line and then on-line again will not lose the contents of the cache.

Q: Who are Verisign, what do they have to do with the bogus-nxdomain option in dnsmasq and why should I wory about it?

A: [note: this was written in September 2003, things may well change.] Verisign run the .com and .net top-level-domains. They have just changed the configuration of their servers so that unknown .com and .net domains, instead of returning an error code NXDOMAIN, (no such domain) return the address of a host at Verisign which runs a web server showing a search page. Most right-thinking people regard this new behaviour as broken :-). You can test to see if you are suffering Verisign brokenness by run a command like

host jlsdajkdalld.com

If you get "jlsdajkdalld.com" does not exist, then all is fine, if host returns an IP address, then the DNS is broken. (Try a few different unlikely domains, just in case you picked a weird one which really _is_ registered.)

Assuming that your DNS is broken, and you want to fix it, simply note the IP address being returned and pass it to dnsmasq using the --bogus-nxdomain flag. Dnsmasq will check for results returning that address and substitute an NXDOMAIN instead.

As of writing, the IP address in question for the .com and .net domains is is 64.94.110.11. Various other, less prominent, registries pull the same stunt; there is a list of them all, and the addresses to block, at http://winware.org/bogus-domains.txt

Q: This new DHCP server is well and good, but it doesn't work for me. What's the problem?

A: There are a couple of configuration gotchas which have been encountered by people moving from the ISC dhcpd to the dnsmasq integrated DHCP daemon. Both are related to differences in in the way the two daemons bypass the IP stack to do "ground up" IP configuration and can lead to the dnsmasq daemon failing whilst the ISC one works.

The first thing to check is the broadcast address set for the ethernet interface. This is normally the address on the connected network with all ones in the host part. For instance if the address of the ethernet interface is 192.168.55.7 and the netmask is 255.255.255.0 then the broadcast address should be 192.168.55.255. Having a broadcast address which is not on the network to which the interface is connected kills things stone dead.

The second potential problem relates to firewall rules: since the ISC daemon in some configurations bypasses the kernel firewall rules entirely, the ability to run the ISC daemon does not indicate that the current configuration is OK for the dnsmasq daemon. For the dnsmasq daemon to operate it's vital that UDP packets to and from ports 67 and 68 and broadcast packets with source address 0.0.0.0 and destination address 255.255.255.255 are not dropped by iptables/ipchains.

Q: I'm running Debian, and my machines get an address fine with DHCP, but their names are not appearing in the DNS.

A: By default, none of the DHCP clients send the host-name when asking

for a lease. For most of the clients, you can set the host-name to send with the "hostname" keyword in /etc/network/interfaces. (See "man interfaces" for details.) That doesn't work for dhclient, were you have to add something like "send host-name daisy" to /etc/dhclient.conf [Update: the latest dhcpcd packages _do_ send the hostname by default.

Q: I'm network booting my machines, and trying to give them static DHCP-assigned addresses. The machine gets its correct address whilst booting, but then the OS starts and it seems to get allocated a different address.

A: What is happening is this: The boot process sends a DHCP request and gets allocated the static address corresponding to its MAC address. The boot loader does not send a client-id. Then the OS starts and repeats the DHCP process, but it it does send a client-id. Dnsmasq cannot assume that the two requests are from the same machine (since the client ID's don't match) and even though the MAC address has a static allocation, that address is still in use by the first incarnation of the machine (the one from the boot, without a client ID.) dnsmasq therefore has to give the machine a dynamic address from its pool. There are three ways to solve this: (1) persuade your DHCP client not to send a client ID, or (2) set up the static assignment to the client ID, not the MAC address. The default client-id will be 01:<MAC address>, so change the dhcp-host line from "dhcp-host=11:22:33:44:55:66,1.2.3.4" to "dhcp-host=id:01:11:22:33:44:55:66,1.2.3.4" or (3) tell dnsmasq to ignore client IDs for a particular MAC address, like this: dhcp-host=11:22:33:44:55:66,id:*

Q: What network types are supported by the DHCP server?

A: Ethernet (and 802.11 wireless) are supported on all platforms. On Linux all network types (including FireWire) are supported.

Q: What are these strange "bind-interface" and "bind-dynamic" options?

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation. The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due the to lack of supporting network APIs).To further add to the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

The three modes are "wildcard", "bind-interfaces" and "bind-dynamic".

In "wildcard" mode, dnsmasq binds the wildcard IP address (0.0.0.0 or ::). This allows it to receive all the packets sent to the server on the relevant port. Access control (--interface, --except-interface, --listen-address, etc) is implemented by dnsmasq: it queries the kernel to determine the interface on which a packet was received and the address to which it was sent, and applies the configured rules. Wildcard mode is the default if neither of the other modes are specified.

In "bind-interfaces" mode, dnsmasq runs through all the network interfaces available when it starts, finds the set of IP addresses on those interfaces, filters that set using the access control configuration, and then binds the set of IP addresses. Only packets sent to the allowed addresses are delivered by the kernel to dnsmasq.

In "bind-dynamic" mode, access control filtering is done both by binding individual IP addresses, as for bind-interfaces, and by inspecting individual packets on arrival as for wildcard mode. In addition, dnsmasq notices when new interfaces appear or new addresses appear on existing interfaces, and the resulting IP addresses are bound automatically without having to restart dnsmasq.

The mode chosen has four different effects: co-existence with other servers, semantics of --interface access control, effect of new interfaces, and legality of --interface specifications for non-existent interfaces. We will deal with these in order.

A dnsmasq instance running in wildcard mode precludes a machine from running a second instance of dnsmasq or any other DNS, TFTP or DHCP server. Attempts to do so will fail with an "address in use" error. Dnsmasq running in --bind-interfaces or bind-dynamic mode allow other instances of dnsmasq or other servers, as long as no two servers are configured to listen on the same interface address.

The semantics of --interface varies subtly between wildcard or bind-dynamic mode and bind-interfaces mode. The situation where this matters is a request which arrives via one interface (A), but with a destination address of a second interface (B) and when dnsmasq is configured to listen only on B. In wildcard or bind-dynamic mode, such a request will be ignored, in bind-interfaces mode, it will be accepted.

The creation of new network interfaces after dnsmasq starts is ignored by dnsmasq when in --bind-interfaces mode. In wildcard or bind-dynamic mode, such interfaces are handled normally.

An --interface specification for a non-existent interface is a fatal error at start-up when in --bind-interfaces mode, by just generates a warning in wildcard or bind-dynamic mode.

Q: Why doesn't Kerberos work/why can't I get sensible answers to queries for SRV records.

A: Probably because you have the "filterwin2k" option set. Note that it was on by default in example configuration files included in versions before 2.12, so you might have it set on without realising.

Q: Can I get email notification when a new version of dnsmasq is released?

A: Yes, new releases of dnsmasq are always announced through freshmeat.net, and they allow you to subscribe to email alerts when new versions of particular projects are released. New releases are also announced in the dnsmasq-discuss mailing list, subscribe at http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss

Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request from a client it has no knowledge of, it should just ignore it. This is because it's supported to have more than one DHCP server on a network, and another DHCP server may be dealing with the client. This has the unfortunate effect that when _no_ DHCP replies to the client, it takes some time for the client to time-out and start to get a new lease. Setting this option makes dnsmasq violate the standard to the extent that it will send a NAK reply to the client, causing it to immediately start to get a new lease. This improves behaviour when machines move networks, and in the case that the DHCP lease database is lost. As long as there are not more tha one DHCP server on the network, it's safe to enable the option.

Q: Why does my Gentoo box pause for a minute before getting a new lease?

A: Because when a Gentoo box shuts down, it releases its lease with the server but remembers it on the client; this seems to be a Gentoo-specific patch to dhcpcd. On restart it tries to renew a lease which is long gone, as far as dnsmasq is concerned, and dnsmasq ignores it until is times out and restarts the process. To fix this, set the dhcp-authoritative flag in dnsmasq.

Q: My laptop has two network interfaces, a wired one and a wireless one. I never use both interfaces at the same time, and I'd like the

same IP and configuration to be used irrespective of which
interface is in use. How can I do that?

A: By default, the identity of a machine is determined by using the
MAC address, which is associated with interface hardware. Once an
IP is bound to the MAC address of one interface, it cannot be
associated with another MAC address until after the DHCP lease
expires. The solution to this is to use a client-id as the machine
identity rather than the MAC address. If you arrange for the same
client-id to sent when either interface is in use, the DHCP server
will recognise the same machine, and use the same address. The
method for setting the client-id varies with DHCP client software,
dhcpcd uses the "-I" flag. Windows uses a registry setting,
see http://www.jsiinc.com/SUBF/TIP2800/rh2845.htm

Addendum:
From version 2.46, dnsmasq has a solution to this which doesn't
involve setting client-IDs. It's possible to put more than one MAC
address in a --dhcp-host configuration. This tells dnsmasq that it
should use the specified IP for any of the specified MAC addresses,
and furthermore it gives dnsmasq permission to summarily abandon a
lease to one of the MAC addresses if another one comes along. Note
that this will work fine only as longer as only one interface is
up at any time. There is no way for dnsmasq to enforce this
constraint: if you configure multiple MAC addresses and violate
this rule, bad things will happen.

Addendum-II: The link above is dead, the former contents of the link are:

How can I keep the same DHCP client reservation, if the MAC address changes?

When you reserve an IP address for a DHCP client, you provide the
MAC address of the client's NIC.

It is possible to use a custom identifier, which is sent as
option 61 in the client's DHCP Discover and Request packet.

The DhcpClientIdentifier is a REG_DWORD value that is located at:

Windows NT 4.0 SP2+

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\<Adapter Name>'X'\Parameters\Tcpip

where <Adapter Name> is the NIC driver name and 'X' is the number of the NIC.

Windows 2000

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\<NIC GUID>

where <NIC GUID> is the GUID of the NIC.

The valid range of data is 0x0 - 0xFFFFFFFF. The custom identifier is send as 4 bytes, 8 hexadecimal character, in groups of 2 hexadecimal characters, with the groups being sent in reverse order. If the custom identifier is less than 8 hexadeciaml characters, it is zero padded at the end. Examples:

Custom Client Identifier	Client Reservation on DHCP Server
12345678	78563412
123456	56341200
1234	34120000
1234567	67452301
12345	45230100
123	23010000
A18F42	428FA100
CF432	32F40C00
C32D1BE	BED1320C

Q: Can dnsmasq do DHCP on IP-alias interfaces?

A: Yes, from version-2.21. The support is only available running under Linux, on a kernel which provides the RT-netlink facility. All 2.4 and 2.6 kernels provide RT-netlink and it's an option in 2.2 kernels.

If a physical interface has more than one IP address or aliases with extra IP addresses, then any dhcp-ranges corresponding to these addresses can be used for address allocation. So if an interface has addresses 192.168.1.0/24 and 192.168.2.0/24 and there are DHCP ranges 192.168.1.100-192.168.1.200 and 192.168.2.100-192.168.2.200 then both ranges would be used for host connected to the physical interface. A more typical use might be to have one of the address-ranges as static-only, and have known hosts allocated addresses on that subnet using dhcp-host options, while anonymous hosts go on the other.

Q: Dnsmasq sometimes logs "nameserver xxx.xxx.xxx.xxx refused to do a recursive query" and DNS stops working. What's going on?

A: Probably the nameserver is an authoritative nameserver for a particular domain, but is not configured to answer general DNS

queries for an arbitrary domain. It is not suitable for use by dnsmasq as an upstream server and should be removed from the configuration. Note that if you have more than one upstream nameserver configured dnsmasq will load-balance across them and it may be some time before dnsmasq gets around to using a particular nameserver. This means that a particular configuration may work for sometime with a broken upstream nameserver configuration.

Q: Does the dnsmasq DHCP server probe addresses before allocating them, as recommended in RFC2131?

A: Yes, dynamically allocated IP addresses are checked by sending an ICMP echo request (ping). If a reply is received, then dnsmasq assumes that the address is in use, and attempts to allocate an different address. The wait for a reply is between two and three seconds. Because the DHCP server is not re-entrant, it cannot serve other DHCP requests during this time. To avoid dropping requests, the address probe may be skipped when dnsmasq is under heavy load.

Q: I'm using dnsmasq on a machine with the Firestarter firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2005q3/000431.html

Q: I'm using dnsmasq on a machine with the shorewall firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2007q4/001764.html

Q: Dnsmasq fails to start up with a message about capabilities. Why did that happen and what can do to fix it?

A: Change your kernel configuration: either deselect CONFIG_SECURITY _or_ select CONFIG_SECURITY_CAPABILITIES. Alternatively, you can remove the need to set capabilities by running dnsmasq as root.

Q: Where can I get .rpms Suitable for openSUSE/SLES?

A: Dnsmasq is in openSUSE itself, and the latest releases are also
available at http://download.opensuse.org/repositories/network/

Q: Can I run dnsmasq in a Linux vserver?

A: Yes, as a DNS server, dnsmasq will just work in a vserver.
To use dnsmasq's DHCP function you need to give the vserver
extra system capabilities. Please note that doing so will lesser
the overall security of your system. The capabilities
required are NET_ADMIN and NET_RAW. NET_ADMIN is essential, NET_RAW
is required to do an ICMP "ping" check on newly allocated
addresses. If you don't need this check, you can disable it with
--no-ping and omit the NET_RAW capability.
Adding the capabilities is done by adding them, one per line, to
either /etc/vservers/<vservername>/ccapabilities for a 2.4 kernel or
/etc/vservers/<vservername>/bcapabilities for a 2.6 kernel (please
refer to the vserver documentation for more information).

Q: What's the problem with syslog and dnsmasq?

A: In almost all cases: none. If you have the normal arrangement with
local daemons logging to a local syslog, which then writes to disk,
then there's never a problem. If you use network logging, then
there's a potential problem with deadlock: the syslog daemon will
do DNS lookups so that it can log the source of log messages,
these lookups will (depending on exact configuration) go through
dnsmasq, which also sends log messages. With bad timing, you can
arrive at a situation where syslog is waiting for dnsmasq, and
dnsmasq is waiting for syslog; they will both wait forever. This
problem is fixed from dnsmasq-2.39, which introduces asynchronous
logging: dnsmasq no longer waits for syslog and the deadlock is
broken. There is a remaining problem in 2.39, where "log-queries"
is in use. In this case most DNS queries generate two log lines, if
these go to a syslog which is doing a DNS lookup for each log line,
then those queries will in turn generate two more log lines, and a
chain reaction runaway will occur. To avoid this, use syslog-ng
and turn on syslog-ng's dns-cache function.

Q: DHCP doesn't work with windows Vista, but everything else is fine.

A: The DHCP client on windows Vista (and possibly later versions)
demands that the DHCP server send replies as broadcasts. Most other
clients don't do this. The broadcasts are send to
255.255.255.255. A badly configured firewall which blocks such
packets will show exactly these symptoms (Vista fails, others

work).

Q: DHCP doesn't work with windows 7 but everything else is fine.

A: There seems to be a problem if Windows 7 doesn't get a value for DHCP option 252 in DHCP packets it gets from the server. The symptoms have been variously reported as continual DHCPINFORM requests in an attempt to get an option-252, or even ignoring DHCP offers completely (and failing to get an IP address) if there is no option-252 supplied. DHCP option 252 is for WPAD, WWW Proxy Auto Detection and if you don't want or need to use that, then simplest fix seems to be to supply an empty option with:

dhcp-option=252,"\n"

1.27 dpkg 1.18.25

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1.28 e2fsprogs 1.44.5

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This package was put together by Yann Dirson <dirson@debian.org>,
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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
-
-   Copyright (C) Andrew Tridgell   2005
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     ** NOTE! The following LGPL license applies to the tdb
     ** library. This does NOT imply that all of Samba is released
#
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): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(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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Gadi Oxman, August 1995

--------------------------------------------------------------------------------
```

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Version 2, June 1991

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

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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

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Theodore Ts'o
23-June-2007

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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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`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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```
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.
#
# 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): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(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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*/
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
-
-   Copyright (C) Andrew Tridgell              2005
+   Copyright (C) Andrew Tridgell              1999-2005
+   Copyright (C) Jeremy Allison               2000-2006
+   Copyright (C) Paul `Rusty' Russell         2000

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1.29 ed 1.15

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"

@c End:

1.30 ethtool 4.19

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1.34 file 5.36

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1.35 findutils 4.6.0

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Ty Coon, President of Vice

That's all there is to it!

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Version 3.1, 31 March 2009

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```
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#
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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
```

```
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
#    update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years).  On the other hand:
#
#    update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
  def __init__ (self):
      self.num_errors = 0

  def report (self, filename, string):
      if filename:
          string = filename + ': ' + string
      sys.stderr.write (string + '\n')
      self.num_errors += 1

  def ok (self):
      return self.num_errors == 0

class GenericFilter:
  def __init__ (self):
      self.skip_files = set()
      self.skip_dirs = set()
      self.skip_extensions = set()
      self.fossilised_files = set()
      self.own_files = set()

      self.skip_files |= set ([
            # Skip licence files.
```

```
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',

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            'texinfo.tex',
            ])


    def get_line_filter (self, dir, filename):
        if filename.startswith ('ChangeLog'):
            # Ignore references to copyright in changelog entries.
            return re.compile ('\t')

        return None
```

```
  def skip_file (self, dir, filename):
    if filename in self.skip_files:
      return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
      return True

    if extension == '.in':
      # Skip .in files produced by automake.
      if os.path.exists (base + '.am'):
        return True

      # Skip files produced by autogen
      if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
      if os.path.exists (base + '.ac'):
        return True
      if os.path.exists (base + '.in'):
        return True

    return False

  def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

  def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
      return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
      return True
    return False

  def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
  def __init__ (self, errors):
    self.errors = errors

    # Characters in a range of years.  Include '.' for typos.
    ranges = '[0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'
```

```
# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (
   # 1: 'Copyright (C)', etc.
   '([Cc]opyright'
   '|[Cc]opyright\s+\([Cc]\)'
   '|[Cc]opyright\s+%s'
   '|[Cc]opyright\s+&copy;'
   '|[Cc]opyright\s+@copyright{}'
   '|copyright = u\"'
   '|@set\s+copyright[\w-]+)'

   # 2: the years.  Include the whitespace in the year, so that
   # we can remove any excess.
   '(\s*(?:' + ranges + ',?'
   '|@value\{[^{}]*\})\s*)'

   # 3: 'by ', if used
   '(by\s+)?'

   # 4: the copyright holder.  Don't allow multiple consecutive
   # spaces, so that right-margin gloss doesn't get caught
   # (e.g. gnat_ugn.texi).
   '(' + name + '(?:\s?' + name + ')*)?')

# A regexp for notices that might have slipped by.  Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                      re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None
```

```
    # Goes after the year(s).  Could be ', '.
    self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
```

```
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
      max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
      return '%d' % min_year
    else:
      return '%d-%d' % (min_year, max_year)

  def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
      line = line[match.end():].lstrip()
    return line

  def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
          or holder in self.holders))

  def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
      # Texinfo year variables should always be on one line
      after_years = line[match.end (2):].strip()
      if after_years != '':
        self.errors.report (pathname,
                  'trailing characters in @set: '
                  + after_years)
        return (False, orig_line, next_line)
    else:
      # If it looks like the copyright is incomplete, add the next line.
      while not self.is_complete (match):
        try:
          next_line = file.next()
        except StopIteration:
          break
```

```
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
               break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

         holder = match.group (4)

         # Use the filter to test cases where markup is getting in the way.
         if filter.by_package_author (dir, filename):
            assert holder not in self.holders

         elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

         elif holder not in self.holders:
            self.errors.report (pathname,
                                'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

         else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
               return (False, orig_line, next_line)

            # Make sure the author is given in a consistent way.
            line = (line[:match.start (4)]
                    + canon_form
                    + line[match.end (4):])

            # Remove any 'by'
            line = line[:match.start (3)] + line[match.end (3):]

      # Update the copyright years.
      years = match.group (2).strip()
      try:
```

```
            canon_form = self.canonicalise_years (dir, filename, filter, years)
        except self.BadYear as e:
            self.errors.report (pathname, str (e))
            return (False, orig_line, next_line)

        line = (line[:match.start (2)]
                + ('' if intro.startswith ('copyright = ') else ' ')
                + canon_form + self.separator
                + line[match.end (2):])

        # Use the standard (C) form.
        if intro.endswith ('right'):
            intro += ' (C)'
        elif intro.endswith ('(c)'):
            intro = intro[:-3] + '(C)'
        line = line[:match.start (1)] + intro + line[match.end (1):]

        # Strip trailing whitespace
        line = line.rstrip() + '\n'

        return (line != orig_line, line, next_line)

    def process_file (self, dir, filename, filter):
        pathname = os.path.join (dir, filename)
        if filename.endswith ('.tmp'):
            # Looks like something we tried to create before.
            try:
                os.remove (pathname)
            except OSError:
                pass
            return

        lines = []
        changed = False
        line_filter = filter.get_line_filter (dir, filename)
        mode = None
        with open (pathname, 'r') as file:
            prev = None
            mode = os.fstat (file.fileno()).st_mode
            for line in file:
                while line:
                    next_line = None
                    # Leave filtered-out lines alone.
                    if not (line_filter and line_filter.match (line)):
                        match = self.copyright_re.search (line)
                        if match:
                            res = self.update_copyright (dir, filename, filter,
                                                         file, line, match)
```

```
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                lines.append (line)
                line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s\n'
                                      % os.path.join (dir, filename))
                else:
                    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
```

```
    self.add_option ('--quilt', '"quilt add" files before changing them',
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
                      'Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
```

```
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#-----------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
  def skip_dir (self, dir, subdir):
    return True

class ConfigFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

  def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
      pathname = os.path.join (dir, filename)
      with open (pathname) as file:
        # Skip files imported from gettext.
        if file.readline().find ('gettext-') >= 0:
          return True
    return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
        ])

    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
```

```
            ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
            ])

class TestsuiteFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        ])

  def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
      return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
      return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
```

```
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])

class LibGCCFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
            ])

class LibStdCxxFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
            ])

    self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
            ])

    self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
            ])

  def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
       return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
  def __init__ (self, errors):
```

```
    Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)

    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Intel Corporation')
    self.add_external_author ('Information Technology Industry Council.')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada.')
    self.add_external_author ('NVIDIA Corporation')
    self.add_external_author ('Peter Dimov and Multi Media Ltd.')
    self.add_external_author ('Peter Dimov')
    self.add_external_author ('Pipeline Associates, Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author ('Silicon Graphics')
    self.add_external_author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author ('The Go Authors.  All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors.')
    self.add_external_author ('The Regents of the University of California.')
    self.add_external_author ('Unicode, Inc.')
    self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
  def __init__ (self):
    CmdLine.__init__ (self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
```

```
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('gotools')
self.add_dir ('include')
# intl is imported from upstream.
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcc1')
# libcilkrts is imported from upstream.
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
```

'libitm',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'lto-plugin',
]

GCCCmdLine().main()
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```
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<http://www.gnu.org/licenses/>.  */

/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
```

```
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
.\" Automatically generated by Pod::Man 2.27 (Pod::Simple 3.28)
.\"
.\" Standard preamble:
.\" ========================================================================
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
..
```

```
.de Ve \" End verbatim text
.ft R
.fi
..
.\" Set up some character translations and predefined strings.  \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote.  \*(C+ will
.\" give a nicer C++.  Capital omega is used to do unbreakable dashes and
.\" therefore won't be available.  \*(C` and \*(C' expand to `' in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'\h'-1p'\s-2+\h'-1p'+\s0\v'.1v'\h'-1p'
.ie n \{\
.    ds -- \(*W-
.    ds PI pi
.    if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u'\(*W\h'-12u'-\" diablo 10 pitch
.    if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'-12u'\(*W\h'-8u'-\"  diablo 12 pitch
.    ds L" ""
.    ds R" ""
.    ds C` ""
.    ds C' ""
'br\}
.el\{\
.    ds -- \|\(em\|
.    ds PI \(*p
.    ds L" ``
.    ds R" ''
.    ds C`
.    ds C'
'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
.el       .ds Aq '
.\"
.\" If the F register is turned on, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD.  Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{
.    if \nF \{
.        de IX
```

```
.       tm Index:\\$1\t\\n%\t"\\$2"
..
.       if !\nF==2 \{
.          nr % 0
.          nr F 2
.       \}
.   \}
.\}
.rr rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear.  Run.  Save yourself.  No user-serviceable parts.
.   \" fudge factors for nroff and troff
.if n \{\
.   ds #H 0
.   ds #V .8m
.   ds #F .3m
.   ds #[ \f1
.   ds #] \fP
.\}
.if t \{\
.   ds #H ((1u-(\\\n(.fu%2u))*.13m)
.   ds #V .6m
.   ds #F 0
.   ds #[ \&
.   ds #] \&
.\}
.   \" simple accents for nroff and troff
.if n \{\
.   ds ' \&
.   ds ` \&
.   ds ^ \&
.   ds , \&
.   ds ~ ~
.   ds /
.\}
.if t \{\
.   ds ' \\k:\h'-(\\n(.wu*8/10-\*(#H)'\'\h'|\\n:u'
.   ds ` \\k:\h'-(\\n(.wu*8/10-\*(#H)'\`\h'|\\n:u'
.   ds ^ \\k:\h'-(\\n(.wu*10/11-\*(#H)'^\h'|\\n:u'
.   ds , \\k:\h'-(\\n(.wu*8/10)',\h'|\\n:u'
.   ds ~ \\k:\h'-(\\n(.wu-\*(#H-.1m)'~\h'|\\n:u'
.   ds / \\k:\h'-(\\n(.wu*8/10-\*(#H)'\z\(sl\h'|\\n:u'
.\}
.   \" troff and (daisy-wheel) nroff accents
.ds : \\k:\h'-(\\n(.wu*8/10-\*(#H+.1m+\*(#F)'\v'-\*(#V'\z.\h'.2m+\*(#F'.\h'|\\n:u'\v'\*(#V'
.ds 8 \h'\*(#H'\(*b\h'-\*(#H'
.ds o \\k:\h'-(\\n(.wu+\w'\(de'u-\*(#H)/2u'\v'-.3n'\*(#[\z\(de\v'.3n'\h'|\\n:u'\*(#]
```

```
.ds d- \h'\*(#H'\(pd\h'-\w'~'u'\v'-.25m'\f2\(hy\fP\v'.25m'\h'-\*(#H'
.ds D- D\\k:\h'-\w'D'u'\v'-.11m'\z\(hy\v'.11m'\h'|\\n:u'
.ds th \*(#[\v'.3m'\s+1I\s-1\v'-.3m'\h'-(\w'I'u*2/3)'\s-1o\s+1\*(#]
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.\" ========================================================================
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-01-25" "gcc-7.3.0" "GNU"
.\" For nroff, turn off justification.  Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
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gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
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.Ve
.SS "Preamble"
.IX Subsection "Preamble"
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that there is no warranty for this free software. For both users' and
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changed, so that their problems will not be attributed erroneously to
authors of previous versions.
.PP
Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the
manufacturer can do so. This is fundamentally incompatible with the
aim of protecting users' freedom to change the software. The
systematic pattern of such abuse occurs in the area of products for
individuals to use, which is precisely where it is most unacceptable.
Therefore, we have designed this version of the \s-1GPL\s0 to prohibit the
practice for those products. If such problems arise substantially in

other domains, we stand ready to extend this provision to those
domains in future versions of the \s-1GPL,\s0 as needed to protect the
freedom of users.
.PP
Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish
to avoid the special danger that patents applied to a free program
could make it effectively proprietary. To prevent this, the \s-1GPL\s0
assures that patents cannot be used to render the program non-free.
.PP
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modification follow.
.SS "\s-1TERMS AND CONDITIONS\s0"
.IX Subsection "TERMS AND CONDITIONS"
.IP "0. Definitions." 4
.IX Item "0. Definitions."
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.Sp
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.Sp
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in a fashion requiring copyright permission, other than the making of
an exact copy. The resulting work is called a *(L"modified version*(R" of
the earlier work or a work *(L"based on*(R" the earlier work.
.Sp
A *(L"covered work*(R" means either the unmodified Program or a work based
on the Program.
.Sp
To *(L"propagate*(R" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.
.Sp
To *(L"convey*(R" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user
through a computer network, with no transfer of a copy, is not
conveying.
.Sp
An interactive user interface displays *(L"Appropriate Legal Notices*(R" to
the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.
.IP "1. Source Code." 4
.IX Item "1. Source Code."
The *(L"source code*(R" for a work means the preferred form of the work for
making modifications to it. *(L"Object code*(R" means any non-source form
of a work.
.Sp
A *(L"Standard Interface*(R" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.
.Sp
The *(L"System Libraries*(R" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
\&*(L"Major Component*(R", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
.Sp
The *(L"Corresponding Source*(R" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.
.Sp
The Corresponding Source need not include anything that users can
regenerate automatically from other parts of the Corresponding Source.
.Sp
The Corresponding Source for a work in source code form is that same
work.
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.IX Item "2. Basic Permissions."

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makes it unnecessary.
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.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."
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circumvention of technological measures.
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non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.
.Sp
You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.
.IP "5. Conveying Modified Source Versions." 4
.IX Item "5. Conveying Modified Source Versions."
You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these
conditions:
.RS 4
.IP "a." 4
.IX Item "a."
The work must carry prominent notices stating that you modified it,
and giving a relevant date.
.IP "b." 4
.IX Item "b."
The work must carry prominent notices stating that it is released
under this License and any conditions added under section 7. This
requirement modifies the requirement in section 4 to *(L"keep intact all
notices*(R".
.IP "c." 4
.IX Item "c."
You must license the entire work, as a whole, under this License to
anyone who comes into possession of a copy. This License will
therefore apply, along with any applicable section 7 additional terms,
to the whole of the work, and all its parts, regardless of how they
are packaged. This License gives no permission to license the work in
any other way, but it does not invalidate such permission if you have
separately received it.
.IP "d." 4
.IX Item "d."
If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your work
need not make them do so.
.RE
.RS 4
.Sp
A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
\&*(L"aggregate*(R" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.
.RE
.IP "6. Conveying Non-Source Forms." 4
.IX Item "6. Conveying Non-Source Forms."

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
.RS 4
.IP "a." 4
.IX Item "a."
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
.IP "b." 4
.IX Item "b."
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
.IP "c." 4
.IX Item "c."
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
.IP "d." 4
.IX Item "d."
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
.IP "e." 4
.IX Item "e."
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of

the work are being offered to the general public at no charge under
subsection 6d.
.RE
.RS 4
.Sp
A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.
.Sp
A *(L"User Product*(R" is either (1) a *(L"consumer product*(R", which means any
tangible personal property which is normally used for personal,
family, or household purposes, or (2) anything designed or sold for
incorporation into a dwelling. In determining whether a product is a
consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
\&*(L"normally used*(R" refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects or is expected
to use, the product. A product is a consumer product regardless of
whether the product has substantial commercial, industrial or
non-consumer uses, unless such uses represent the only significant
mode of use of the product.
.Sp
\&*(L"Installation Information*(R" for a User Product means any methods,
procedures, authorization keys, or other information required to
install and execute modified versions of a covered work in that User
Product from a modified version of its Corresponding Source. The
information must suffice to ensure that the continued functioning of
the modified object code is in no case prevented or interfered with
solely because modification has been made.
.Sp
If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in \s-1ROM\s0).
.Sp
The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or
updates for a work that has been modified or installed by the
recipient, or for the User Product in which it has been modified or
installed. Access to a network may be denied when the modification
itself materially and adversely affects the operation of the network

or violates the rules and protocols for communication across the
network.
.Sp
Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.
.RE
.IP "7. Additional Terms." 4
.IX Item "7. Additional Terms."
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.RS 4
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.IX Item "8. Termination."
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.IP "11. Patents." 4

.IX Item "11. Patents."
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.IX Item "12. No Surrender of Others' Freedom."
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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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Version 3.1, 31 March 2009

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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
```

```
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
.\" Automatically generated by Pod::Man 2.27 (Pod::Simple 3.28)
.\"
.\" Standard preamble:
.\" ========================================================================
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
```

```
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
.\" Set up some character translations and predefined strings.  \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote.  \*(C+ will
.\" give a nicer C++.  Capital omega is used to do unbreakable dashes and
.\" therefore won't be available.  \*(C` and \*(C' expand to `' in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'\h'-1p'\s-2+\h'-1p'+\s0\v'.1v'\h'-1p'
.ie n \{\
.    ds -- \(*W-
.    ds PI pi
.    if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u'\(*W\h'-12u'-\" diablo 10 pitch
.    if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'-12u'\(*W\h'-8u'-\"  diablo 12 pitch
.    ds L" ""
.    ds R" ""
.    ds C` ""
.    ds C' ""
'br\}
.el\{\
.    ds -- \|\(em\|
.    ds PI \(*p
.    ds L" ``
.    ds R" ''
.    ds C`
.    ds C'
'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(aq
.el       .ds Aq '
.\"
.\" If the F register is turned on, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD.  Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
```

```
.de IX
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{
.   if \nF \{
.      de IX
.      tm Index:\\$1\t\\n%\t"\\$2"
..
.      if !\nF==2 \{
.         nr % 0
.         nr F 2
.      \}
.   \}
.\}
.rr rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear.  Run.  Save yourself.  No user-serviceable parts.
.   \" fudge factors for nroff and troff
.if n \{\
.   ds #H 0
.   ds #V .8m
.   ds #F .3m
.   ds #[ \f1
.   ds #] \fP
.\}
.if t \{\
.   ds #H ((1u-(\\\n(.fu%2u))*.13m)
.   ds #V .6m
.   ds #F 0
.   ds #[ \&
.   ds #] \&
.\}
.   \" simple accents for nroff and troff
.if n \{\
.   ds ' \&
.   ds ` \&
.   ds ^ \&
.   ds , \&
.   ds ~ ~
.   ds /
.\}
.if t \{\
.   ds ' \\k:\h'-(\\n(.wu*8/10-\*(#H)'\'\h'|\\n:u'
.   ds ` \\k:\h'-(\\n(.wu*8/10-\*(#H)'\`\h'|\\n:u'
.   ds ^ \\k:\h'-(\\n(.wu*10/11-\*(#H)'^\h'|\\n:u'
.   ds , \\k:\h'-(\\n(.wu*8/10)',\h'|\\n:u'
```

```
.    ds ~ \\k:\h'-(\\n(.wu-\*(#H-.1m)'~\h'|\\n:u'
.    ds / \\k:\h'-(\\n(.wu*8/10-\*(#H)'\z\(sl\h'|\\n:u'
.\}
.    \" troff and (daisy-wheel) nroff accents
.ds : \\k:\h'-(\\n(.wu*8/10-\*(#H+.1m+\*(#F)'\v'-\*(#V'\z.\h'.2m+\*(#F'.\h'|\\n:u'\v'\*(#V'
.ds 8 \h'\*(#H'\(*b\h'-\*(#H'
.ds o \\k:\h'-(\\n(.wu+\w'\(de'u-\*(#H)/2u'\v'-.3n'\*(#[\z\(de\v'.3n'\h'|\\n:u'\*(#]
.ds d- \h'\*(#H'\(pd\h'-\w'~'u'\v'-.25m'\f2\(hy\fP\v'.25m'\h'-\*(#H'
.ds D- D\\k:\h'-\w'D'u'\v'-.11m'\z\(hy\v'.11m'\h'|\\n:u'
.ds th \*(#[\v'.3m'\s+1I\s-1\v'-.3m'\h'-(\w'I'u*2/3)'\s-1o\s+1\*(#]
.ds Th \*(#[\s+2I\s-2\h'-\w'I'u*3/5'\v'-.3m'o\v'.3m'\*(#]
.ds ae a\h'-(\w'a'u*4/10)'e
.ds Ae A\h'-(\w'A'u*4/10)'E
.    \" corrections for vroff
.if v .ds ~ \\k:\h'-(\\n(.wu*9/10-\*(#H)'\s-2\u~\d\s+2\h'|\\n:u'
.if v .ds ^ \\k:\h'-(\\n(.wu*10/11-\*(#H)'\v'-.4m'^\v'.4m'\h'|\\n:u'
.    \" for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{\
.    ds : e
.    ds 8 ss
.    ds o a
.    ds d- d\h'-1'\(ga
.    ds D- D\h'-1'\(hy
.    ds th \o'bp'
.    ds Th \o'LP'
.    ds ae ae
.    ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" ========================================================================
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-12-06" "gcc-7.4.0" "GNU"
.\" For nroff, turn off justification.  Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\&       Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
```

\&
\& Everyone is permitted to copy and distribute verbatim copies of this
\& license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
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.PP
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to take away your freedom to share and change the works. By contrast,
the \s-1GNU\s0 General Public License is intended to guarantee your freedom
to share and change all versions of a program*(--to make sure it remains
free software for all its users. We, the Free Software Foundation,
use the \s-1GNU\s0 General Public License for most of our software; it
applies also to any other work released this way by its authors. You
can apply it to your programs, too.
.PP
When we speak of free software, we are referring to freedom, not
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have the freedom to distribute copies of free software (and charge for
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.
.PP
To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you
have certain responsibilities if you distribute copies of the
software, or if you modify it: responsibilities to respect the freedom
of others.
.PP
For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too,
receive or can get the source code. And you must show them these
terms so they know their rights.
.PP
Developers that use the \s-1GNU GPL\s0 protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.
.PP
For the developers' and authors' protection, the \s-1GPL\s0 clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the \s-1GPL\s0 requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.
.PP
Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the
manufacturer can do so. This is fundamentally incompatible with the
aim of protecting users' freedom to change the software. The
systematic pattern of such abuse occurs in the area of products for
individuals to use, which is precisely where it is most unacceptable.
Therefore, we have designed this version of the \s-1GPL\s0 to prohibit the
practice for those products. If such problems arise substantially in
other domains, we stand ready to extend this provision to those
domains in future versions of the \s-1GPL,\s0 as needed to protect the
freedom of users.
.PP
Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish
to avoid the special danger that patents applied to a free program
could make it effectively proprietary. To prevent this, the \s-1GPL\s0
assures that patents cannot be used to render the program non-free.
.PP
The precise terms and conditions for copying, distribution and
modification follow.
.SS "\s-1TERMS AND CONDITIONS\s0"
.IX Subsection "TERMS AND CONDITIONS"
.IP "0. Definitions." 4
.IX Item "0. Definitions."
\&*(L"This License*(R" refers to version 3 of the \s-1GNU\s0 General Public License.
.Sp
\&*(L"Copyright*(R" also means copyright-like laws that apply to other kinds
of works, such as semiconductor masks.
.Sp
\&*(L"The Program*(R" refers to any copyrightable work licensed under this
License. Each licensee is addressed as *(L"you*(R". *(L"Licensees*(R" and
\&*(L"recipients*(R" may be individuals or organizations.
.Sp
To *(L"modify*(R" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of
an exact copy. The resulting work is called a *(L"modified version*(R" of
the earlier work or a work *(L"based on*(R" the earlier work.
.Sp
A *(L"covered work*(R" means either the unmodified Program or a work based
on the Program.
.Sp
To *(L"propagate*(R" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.
.Sp

To *(L"convey*(R" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user
through a computer network, with no transfer of a copy, is not
conveying.
.Sp
An interactive user interface displays *(L"Appropriate Legal Notices*(R" to
the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.
.IP "1. Source Code." 4
.IX Item "1. Source Code."
The *(L"source code*(R" for a work means the preferred form of the work for
making modifications to it. *(L"Object code*(R" means any non-source form
of a work.
.Sp
A *(L"Standard Interface*(R" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.
.Sp
The *(L"System Libraries*(R" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
\&*(L"Major Component*(R", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
.Sp
The *(L"Corresponding Source*(R" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.
.Sp

The Corresponding Source need not include anything that users can
regenerate automatically from other parts of the Corresponding Source.
.Sp
The Corresponding Source for a work in source code form is that same
work.
.IP "2. Basic Permissions." 4
.IX Item "2. Basic Permissions."
All rights granted under this License are granted for the term of
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permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.
.Sp
You may make, run and propagate covered works that you do not convey,
without conditions so long as your license otherwise remains in force.
You may convey covered works to others for the sole purpose of having
them make modifications exclusively for you, or provide you with
facilities for running those works, provided that you comply with the
terms of this License in conveying all material for which you do not
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you must do so exclusively on your behalf, under your direction and
control, on terms that prohibit them from making any copies of your
copyrighted material outside their relationship with you.
.Sp
Conveying under any other circumstances is permitted solely under the
conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.
.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4
.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."
No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.
.Sp
When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such
circumvention is effected by exercising rights under this License with
respect to the covered work, and you disclaim any intention to limit
operation or modification of the work as a means of enforcing, against
the work's users, your or third parties' legal rights to forbid
circumvention of technological measures.
.IP "4. Conveying Verbatim Copies." 4
.IX Item "4. Conveying Verbatim Copies."
You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and

appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.
.Sp
You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.
.IP "5. Conveying Modified Source Versions." 4
.IX Item "5. Conveying Modified Source Versions."
You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these
conditions:
.RS 4
.IP "a." 4
.IX Item "a."
The work must carry prominent notices stating that you modified it,
and giving a relevant date.
.IP "b." 4
.IX Item "b."
The work must carry prominent notices stating that it is released
under this License and any conditions added under section 7. This
requirement modifies the requirement in section 4 to *(L"keep intact all
notices*(R".
.IP "c." 4
.IX Item "c."
You must license the entire work, as a whole, under this License to
anyone who comes into possession of a copy. This License will
therefore apply, along with any applicable section 7 additional terms,
to the whole of the work, and all its parts, regardless of how they
are packaged. This License gives no permission to license the work in
any other way, but it does not invalidate such permission if you have
separately received it.
.IP "d." 4
.IX Item "d."
If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your work
need not make them do so.
.RE
.RS 4
.Sp
A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
\&*(L"aggregate*(R" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.
.RE
.IP "6. Conveying Non-Source Forms." 4
.IX Item "6. Conveying Non-Source Forms."
You may convey a covered work in object code form under the terms of
sections 4 and 5, provided that you also convey the machine-readable
Corresponding Source under the terms of this License, in one of these
ways:
.RS 4
.IP "a." 4
.IX Item "a."
Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium customarily
used for software interchange.
.IP "b." 4
.IX Item "b."
Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a written
offer, valid for at least three years and valid for as long as you
offer spare parts or customer support for that product model, to give
anyone who possesses the object code either (1) a copy of the
Corresponding Source for all the software in the product that is
covered by this License, on a durable physical medium customarily used
for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.
.IP "c." 4
.IX Item "c."
Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.
.IP "d." 4
.IX Item "d."
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.

Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.
.IP "e." 4
.IX Item "e."
Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of
the work are being offered to the general public at no charge under
subsection 6d.
.RE
.RS 4
.Sp
A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.
.Sp
A *(L"User Product*(R" is either (1) a *(L"consumer product*(R", which means any
tangible personal property which is normally used for personal,
family, or household purposes, or (2) anything designed or sold for
incorporation into a dwelling. In determining whether a product is a
consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
\&*(L"normally used*(R" refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects or is expected
to use, the product. A product is a consumer product regardless of
whether the product has substantial commercial, industrial or
non-consumer uses, unless such uses represent the only significant
mode of use of the product.
.Sp
\&*(L"Installation Information*(R" for a User Product means any methods,
procedures, authorization keys, or other information required to
install and execute modified versions of a covered work in that User
Product from a modified version of its Corresponding Source. The
information must suffice to ensure that the continued functioning of
the modified object code is in no case prevented or interfered with
solely because modification has been made.
.Sp
If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in \s-1ROM\s0).

.Sp
The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or
updates for a work that has been modified or installed by the
recipient, or for the User Product in which it has been modified or
installed. Access to a network may be denied when the modification
itself materially and adversely affects the operation of the network
or violates the rules and protocols for communication across the
network.
.Sp
Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.
.RE
.IP "7. Additional Terms." 4
.IX Item "7. Additional Terms."
\&*(L"Additional permissions*(R" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
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.Sp
When you convey a copy of a covered work, you may at your option
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.Sp
Notwithstanding any other provision of this License, for material you
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.RS 4
.IP "a." 4
.IX Item "a."
Disclaiming warranty or limiting liability differently from the terms
of sections 15 and 16 of this License; or
.IP "b." 4
.IX Item "b."
Requiring preservation of specified reasonable legal notices or author
attributions in that material or in the Appropriate Legal Notices
displayed by works containing it; or
.IP "c." 4

.IX Item "c."
Prohibiting misrepresentation of the origin of that material, or
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.IP "d." 4
.IX Item "d."
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authors of the material; or
.IP "e." 4
.IX Item "e."
Declining to grant rights under trademark law for use of some trade
names, trademarks, or service marks; or
.IP "f." 4
.IX Item "f."
Requiring indemnification of licensors and authors of that material by
anyone who conveys the material (or modified versions of it) with
contractual assumptions of liability to the recipient, for any
liability that these contractual assumptions directly impose on those
licensors and authors.
.RE
.RS 4
.Sp
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restrictions*(R" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.
.Sp
If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.
.Sp
Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions; the
above requirements apply either way.
.RE
.IP "8. Termination." 4
.IX Item "8. Termination."
You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
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paragraph of section 11).

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state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

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@var{one line to give the program's name and a brief idea of what it does.}
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notice like this when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
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@end smallexample

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

```
#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
#    update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
```

```
# new files have been added with old years).  On the other hand:
#
#    update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
  def __init__ (self):
     self.num_errors = 0

  def report (self, filename, string):
     if filename:
        string = filename + ': ' + string
     sys.stderr.write (string + '\n')
     self.num_errors += 1

  def ok (self):
     return self.num_errors == 0

class GenericFilter:
  def __init__ (self):
     self.skip_files = set()
     self.skip_dirs = set()
     self.skip_extensions = set()
     self.fossilised_files = set()
     self.own_files = set()

     self.skip_files |= set ([
           # Skip licence files.
           'COPYING',
           'COPYING.LIB',
           'COPYING3',
           'COPYING3.LIB',
           'LICENSE',
           'fdl.texi',
           'gpl_v3.texi',
           'fdl-1.3.xml',
           'gpl-3.0.xml',
```

```
            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',

            # Skip imported texinfo files.
            'texinfo.tex',
            ])


    def get_line_filter (self, dir, filename):
        if filename.startswith ('ChangeLog'):
            # Ignore references to copyright in changelog entries.
            return re.compile ('\t')

        return None

    def skip_file (self, dir, filename):
        if filename in self.skip_files:
            return True

        (base, extension) = os.path.splitext (os.path.join (dir, filename))
        if extension in self.skip_extensions:
            return True

        if extension == '.in':
            # Skip .in files produced by automake.
```

```
            if os.path.exists (base + '.am'):
                return True

            # Skip files produced by autogen
            if (os.path.exists (base + '.def')
                and os.path.exists (base + '.tpl')):
                return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
            if os.path.exists (base + '.in'):
                return True

        return False

    def skip_dir (self, dir, subdir):
        return subdir in self.skip_dirs

    def is_fossilised_file (self, dir, filename):
        if filename in self.fossilised_files:
            return True
        # Only touch current current ChangeLogs.
        if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
            return True
        return False

    def by_package_author (self, dir, filename):
        return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
```

```
    self.copyright_re = re.compile (
       # 1: 'Copyright (C)', etc.
       '([Cc]opyright'
       '|[Cc]opyright\s+\([Cc]\)'
       '|[Cc]opyright\s+%s'
       '|[Cc]opyright\s+&copy;'
       '|[Cc]opyright\s+@copyright{}'
       '|copyright = u\"'
       '|@set\s+copyright[\w-]+)'

       # 2: the years.  Include the whitespace in the year, so that
       # we can remove any excess.
       '(\s*(?:' + ranges + ',?'
       '|@value\{[^{}]*\})\s*)'

       # 3: 'by ', if used
       '(by\s+)?'

       # 4: the copyright holder.  Don't allow multiple consecutive
       # spaces, so that right-margin gloss doesn't get caught
       # (e.g. gnat_ugn.texi).
       '(' + name + '(?:\s?' + name + ')*)?')

    # A regexp for notices that might have slipped by.  Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                          re.IGNORECASE)
    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
    self.holders = { '@copying': '@copying' }
    self.holder_prefixes = set()

    # True to 'quilt add' files before changing them.
    self.use_quilt = False

    # If set, force all notices to include this year.
    self.max_year = None

    # Goes after the year(s).  Could be ', '.
    self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
       canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
       self.holder_prefixes.add (holder[:index])
```

```
        index = holder.find (' ', index + 1)

    def add_external_author (self, holder):
        self.holders[holder] = None

    class BadYear():
        def __init__ (self, year):
            self.year = year

        def __str__ (self):
            return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

    def canonicalise_years (self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith ('@value'):
            return years

        (min_year, max_year) = self.year_range (years)

        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file (dir, filename):
            max_year = max (max_year, self.max_year)

        # Use a range.
        if min_year == max_year:
            return '%d' % min_year
```

```
    else:
      return '%d-%d' % (min_year, max_year)

  def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
      line = line[match.end():].lstrip()
    return line

  def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
          or holder in self.holders))

  def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
      # Texinfo year variables should always be on one line
      after_years = line[match.end (2):].strip()
      if after_years != '':
        self.errors.report (pathname,
                  'trailing characters in @set: '
                  + after_years)
        return (False, orig_line, next_line)
    else:
      # If it looks like the copyright is incomplete, add the next line.
      while not self.is_complete (match):
        try:
          next_line = file.next()
        except StopIteration:
          break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
          break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
```

```
            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report (pathname,
                                'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
                return (False, orig_line, next_line)

            # Make sure the author is given in a consistent way.
            line = (line[:match.start (4)]
                    + canon_form
                    + line[match.end (4):])

            # Remove any 'by'
            line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])
```

```
        # Use the standard (C) form.
        if intro.endswith ('right'):
            intro += ' (C)'
        elif intro.endswith ('(c)'):
            intro = intro[:-3] + '(C)'
        line = line[:match.start (1)] + intro + line[match.end (1):]

        # Strip trailing whitespace
        line = line.rstrip() + '\n'

        return (line != orig_line, line, next_line)

    def process_file (self, dir, filename, filter):
        pathname = os.path.join (dir, filename)
        if filename.endswith ('.tmp'):
            # Looks like something we tried to create before.
            try:
                os.remove (pathname)
            except OSError:
                pass
            return

        lines = []
        changed = False
        line_filter = filter.get_line_filter (dir, filename)
        mode = None
        with open (pathname, 'r') as file:
            prev = None
            mode = os.fstat (file.fileno()).st_mode
            for line in file:
                while line:
                    next_line = None
                    # Leave filtered-out lines alone.
                    if not (line_filter and line_filter.match (line)):
                        match = self.copyright_re.search (line)
                        if match:
                            res = self.update_copyright (dir, filename, filter,
                                                         file, line, match)
                            (this_changed, line, next_line) = res
                            changed = changed or this_changed

                        # Check for copyright lines that might have slipped by.
                        elif self.other_copyright_re.search (line):
                            self.errors.report (pathname,
                                                'unrecognised copyright: %s'
                                                % line.strip())
                    lines.append (line)
                    line = next_line
```

```
        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s\n'
                                      % os.path.join (dir, filename))
                else:
                    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
```

```
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
                      'Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
```

```
                self.errors.report (None, 'unrecognised directory: '
                                    + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
  def skip_dir (self, dir, subdir):
      return True

class ConfigFilter (GenericFilter):
  def __init__ (self):
      GenericFilter.__init__ (self)

  def skip_file (self, dir, filename):
      if filename.endswith ('.m4'):
          pathname = os.path.join (dir, filename)
          with open (pathname) as file:
              # Skip files imported from gettext.
              if file.readline().find ('gettext-') >= 0:
                  return True
      return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
  def __init__ (self):
      GenericFilter.__init__ (self)

      self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
            ])

      self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
            ])

      self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])
```

```
    self.fossilised_files |= set ([
        # Old news won't be updated.
        'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        ])

  def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
      return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
      return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
        ])

class LibGCCFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)
```

```
        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
            ])

class LibStdCxxFilter (GenericFilter):
  def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
            ])

    self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
            ])

    self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
            ])

  def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
       return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
  def __init__ (self, errors):
    Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
```

```
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors.  All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

    class GCCCmdLine (CmdLine):
      def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
```

```
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        # libcilkrts is imported from upstream.
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.

        self.default_dirs = [
           'gcc',
           'include',
           'libada',
           'libatomic',
           'libbacktrace',
           'libcc1',
           'libcpp',
           'libdecnumber',
           'libgcc',
           'libgfortran',
           'libgomp',
           'libhsail-rt',
           'libiberty',
           'libitm',
           'libobjc',
           'libssp',
           'libstdc++-v3',
           'libvtv',
           'lto-plugin',
           ]

    GCCCmdLine().main()
```

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</para>
<screen>
<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable>
Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

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 </screen>
 <para>
  Also add information on how to contact you by electronic and paper mail.
 </para>
 <para>
  If the program does terminal interaction, make it output a short notice like
  this when it starts in an interactive mode:
 </para>
 <screen>
<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of
author</replaceable>
This program comes with ABSOLUTELY NO WARRANTY; for details type <literal>show w</literal>.
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  The hypothetical commands <literal>show w</literal> and
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xlink:href="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-
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 </para>
</appendix>

1.39 gdb 8.3

1.39.1 Available under license :

```
#! /usr/bin/env python

# Copyright (C) 2011-2018 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
```

```
  """
  result = []
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
              or reldirname in EXCLUDE_LIST
              or reldirname in NOT_FSF_LIST
              or reldirname in BY_HAND):
              # Prune this directory from our search list.
              dirs.remove(dirname)
        for filename in files:
           relpath = "%s/%s" % (root, filename)
           if (filename in EXCLUDE_ALL_LIST
              or relpath in EXCLUDE_LIST
              or relpath in NOT_FSF_LIST
              or relpath in BY_HAND):
              # Ignore this file.
              pass
           else:
              result.append(relpath)
  return result


def update_files(update_list):
  """Update the copyright header of the files in the given list.

  We use gnulib's update-copyright script for that.
  """
  # We want to use year intervals in the copyright notices, and
  # all years should be collapsed to one single year interval,
  # even if there are "holes" in the list of years found in the
  # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
  os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

  # Perform the update, and save the output in a string.
  update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
  update_cmd += update_list

  p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                       stderr=subprocess.STDOUT)
  update_out = p.communicate()[0]

  # Process the output.  Typically, a lot of files do not have
  # a copyright notice :-(.  The update-copyright script prints
  # a well defined warning when it did not find the copyright notice.
  # For each of those, do a sanity check and see if they may in fact
```

```
    # have one.  For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('\n'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line


def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorigthm is fairly crude, meaning that it might return
    some false positives.  I do not think it will return any false
    negatives...  We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False
```

```
def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
     print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...

  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

################################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
################################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
```

```
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
```

```
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
  "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
  "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
  "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
  "sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
  "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
  "sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
  "sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
  "sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
  "sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
  "sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
  "sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
  "sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
  "sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
  "sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
  "sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
  "sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
  "sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
  "sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
  "sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
  "sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
  "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
  main()
/* Native-dependent code for modern AMD64 BSD's.
```

```
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  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
          int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
          int regnum);

/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/* BSD Kernel Data Access Library (libkvm) interface.

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```

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

```
#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h"  /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file.  */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor.  */
static kvm_t *core_kd;

/* Address of process control block.  */
static struct pcb *bsd_kvm_paddr;
```

```
/* Pointer to architecture-specific function that reconstructs the
  register state from PCB and supplies it to REGCACHE.  */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm.  The kvm
  target currently doesn't export any view of the running processes,
  so this represents the kernel task.  */
static ptid_t bsd_kvm_ptid;

/* The libkvm target.  */

static const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public target_ops
{
public:
 bsd_kvm_target ()
 { this->to_stratum = process_stratum; }

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
    const char *annex,
    gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len,
    ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
 const char *pid_to_str (ptid_t) override;

 bool has_memory () override { return true; }
 bool has_stack () override { return true; }
 bool has_registers () override { return true; }
};

/* Target ops for libkvm interface.  */
static bsd_kvm_target bsd_kvm_ops;
```

```
static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

     filename = tilde_expand (arg);
     if (filename[0] != '/')
 {
   temp = concat (current_directory, "/", filename, (char *)NULL);
   xfree (filename);
   filename = temp;
 }
   }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
      write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
   error (("%s"), errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
 push_target (&bsd_kvm_ops);

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
 if (core_kd)
```

```
  {
    if (kvm_close (core_kd) == -1)
 warning (("%s"), kvm_geterr(core_kd));
    core_kd = NULL;
  }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
       gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
  nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
 if (writebuf && nbytes > 0)
  nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
        const char *annex, gdb_byte *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
  {
  case TARGET_OBJECT_MEMORY:
    {
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

 if (ret < 0)
  return TARGET_XFER_E_IO;
 else if (ret == 0)
  return TARGET_XFER_EOF;
 else
  {
    *xfered_len = (ULONGEST) ret;
    return TARGET_XFER_OK;
  }
    }

  default:
    return TARGET_XFER_E_IO;
```

```
  }
}

void
bsd_kvm_target::files_info ()
{
 if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
   printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
       bsd_kvm_corefile);
 else
   printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR.  */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
 struct pcb pcb;

 if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
   error (("%s"), kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

 if (bsd_kvm_paddr)
   {
     bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
     return;
   }

 /* On dumping core, BSD kernels store the faulting context (PCB)
    in the variable "dumppcb".  */
 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_dumppcb";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
```

```
    /* Found dumppcb.  If it contains a valid context, return
 immediately.  */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
  }

/* Traditional BSD kernels have a process proc0 that should always
   be present.  The address of proc0's PCB is stored in the variable
   "proc0paddr".  */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
  {
    struct pcb *paddr;

    /* Found proc0paddr.  */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
   lives in `struct proc' but in `struct thread'.  The `struct
   thread' for the initial thread for proc0 can be found in the
   variable "thread0".  */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
  {
    struct pcb *paddr;

    /* Found thread0.  */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("%s"), kvm_geterr (core_kd));
```

```
    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }
#endif

 /* i18n: PCB == "Process Control Block".  */
 error (_("Cannot find a valid PCB"));
}


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
 /* ??? Should this become an alias for "target kvm"?  */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
   error_no_arg (_("proc address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif

 if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
   error (("%s"), kvm_geterr (core_kd));

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
```

```
#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
   /* i18n: PCB == "Process Control Block".  */
   error_no_arg (_("pcb address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter.  */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
```

```
Generic command for manipulating the kernel memory interface."),
   &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
   _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
 add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
   /* i18n: PCB == "Process Control Block".  */
   _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.

   The pid field represents the kvm inferior instance.  Currently,
   we don't support multiple kvm inferiors, but we start at 1
   anyway.  The lwp field is set to != 0, in case the core wants to
   refer to the whole kvm inferior with ptid(1,0,0).

   If kvm is made to export running processes as gdb threads,
   the following form can be used:
   ptid (1, 1, 0) -> kvm inferior 1, in kernel
   ptid (1, 1, 1) -> kvm inferior 1, process 1
   ptid (1, 1, 2) -> kvm inferior 1, process 2
   ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
  "-*- buffer-read-only: t -*- vi" \
  ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
```

```
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  print "}";
  print "";
  print "static void";
  print "show_warranty_command (const char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";
  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
```

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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, whereas the latter must be combined with the library in order to run.

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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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of 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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. 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.)

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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 properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a

derivative of the original library, and the ordinary General Public License treats it as such.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of 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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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.

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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 compile 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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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) 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.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

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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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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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Also, for each distributor's protection, we want to make certain

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. 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.)

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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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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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of 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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. 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.)

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 compile 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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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) 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.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

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

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
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       Version 2, June 1991

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[This is the first released version of the library GPL. It is

numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect

transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of 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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instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. 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.)

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 compile 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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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.)

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Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<one line to give the library's name and a brief idea of what it does.>
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

<signature of Ty Coon>, 1 April 1989
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Public License instead of this License.
#! /usr/bin/env python

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```
#
# This file is part of GDB.
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
  result = []
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
```

```
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
    return result


def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output.  Typically, a lot of files do not have
    # a copyright notice :-(.  The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one.  For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)
```

```
  for line in update_out:
    if line.endswith('\n'):
      line = line[:-1]
    if line.endswith(warning_string):
      filename = line[:-warning_len]
      if may_have_copyright_notice(filename):
        print line
    else:
      # Unrecognized file format. !?!
      print "*** " + line


def may_have_copyright_notice(filename):
  """Check that the given file does not seem to have a copyright notice.

  The filename is relative to the root directory.
  This function assumes that the current working directory is that root
  directory.

  The algorigthm is fairly crude, meaning that it might return
  some false positives.  I do not think it will return any false
  negatives...  We might improve this function to handle more
  complex cases later...
  """
  # For now, it may have a copyright notice if we find the word
  # "Copyright" at the (reasonable) start of the given file, say
  # 50 lines...
  MAX_LINES = 50

  fd = open(filename)

  lineno = 1
  for line in fd:
    if 'Copyright' in line:
      return True
    lineno += 1
    if lineno > 50:
      return False
  return False


def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
    print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)
```

```
  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...

  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

################################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
################################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
```

```
EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
```

"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
main()
/* Native-dependent code for modern i386 BSD's.

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```
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  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions.  See definitions.  */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/i386 target.  */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
  "-*- buffer-read-only: t -*- vi" \
  ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
```

```
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  print "}";
  print "";
  print "static void";
  print "show_warranty_command (const char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
```

```
  print "  add_info (\"copying\", show_copying_command,";
  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
/* BSD Kernel Data Access Library (libkvm) interface.

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h"          /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
```

```
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file.  */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor.  */
static kvm_t *core_kd;

/* Address of process control block.  */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
  register state from PCB and supplies it to REGCACHE.  */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm.  The kvm
  target currently doesn't export any view of the running processes,
  so this represents the kernel task.  */
static ptid_t bsd_kvm_ptid;

/* The libkvm target.  */

static const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public process_stratum_target
{
public:
 bsd_kvm_target () = default;

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
     const char *annex,
     gdb_byte *readbuf,
     const gdb_byte *writebuf,
     ULONGEST offset, ULONGEST len,
```

```
    ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
 const char *pid_to_str (ptid_t) override;

 bool has_memory () override { return true; }
 bool has_stack () override { return true; }
 bool has_registers () override { return true; }
};

/* Target ops for libkvm interface.  */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

     filename = tilde_expand (arg);
     if (filename[0] != '/')
 {
   temp = concat (current_directory, "/", filename, (char *)NULL);
   xfree (filename);
   filename = temp;
 }
   }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
      write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
   error (("%s"), errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
 push_target (&bsd_kvm_ops);
```

```
 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
 if (core_kd)
   {
     if (kvm_close (core_kd) == -1)
 warning (("%s"), kvm_geterr(core_kd));
     core_kd = NULL;
   }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
       gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
   nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
 if (writebuf && nbytes > 0)
   nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
         const char *annex, gdb_byte *readbuf,
         const gdb_byte *writebuf,
         ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
   {
   case TARGET_OBJECT_MEMORY:
     {
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);
```

```
 if (ret < 0)
   return TARGET_XFER_E_IO;
 else if (ret == 0)
   return TARGET_XFER_EOF;
 else
   {
     *xfered_len = (ULONGEST) ret;
     return TARGET_XFER_OK;
   }
     }

   default:
     return TARGET_XFER_E_IO;
   }
}

void
bsd_kvm_target::files_info ()
{
 if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
   printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
       bsd_kvm_corefile);
 else
   printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR.  */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
 struct pcb pcb;

 if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
   error (("%s"), kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

 if (bsd_kvm_paddr)
   {
     bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
```

```
    return;
  }

/* On dumping core, BSD kernels store the faulting context (PCB)
   in the variable "dumppcb".  */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
  {
    /* Found dumppcb.  If it contains a valid context, return
 immediately.  */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
  }

/* Traditional BSD kernels have a process proc0 that should always
   be present.  The address of proc0's PCB is stored in the variable
   "proc0paddr".  */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
  {
    struct pcb *paddr;

    /* Found proc0paddr.  */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
   lives in `struct proc' but in `struct thread'.  The `struct
   thread' for the initial thread for proc0 can be found in the
   variable "thread0".  */

 memset (nl, 0, sizeof nl);
```

```
 nl[0].n_name = "_thread0";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     struct pcb *paddr;

     /* Found thread0.  */
     nl[0].n_value += offsetof (struct thread, td_pcb);
     if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

     bsd_kvm_fetch_pcb (regcache, paddr);
     return;
   }
#endif

 /* i18n: PCB == "Process Control Block".  */
 error (_("Cannot find a valid PCB"));
}


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
 /* ??? Should this become an alias for "target kvm"?  */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
   error_no_arg (_("proc address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
```

```
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif

 if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
   error (("%s"), kvm_geterr (core_kd));

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
   /* i18n: PCB == "Process Control Block".  */
   error_no_arg (_("pcb address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}
```

```
/* Add the libkvm interface to the list of all possible targets and
  register CUPPLY_PCB as the architecture-specific process control
  block interpreter.  */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
 add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block".  */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance.  Currently,
    we don't support multiple kvm inferiors, but we start at 1
    anyway.  The lwp field is set to != 0, in case the core wants to
    refer to the whole kvm inferior with ptid(1,0,0).

    If kvm is made to export running processes as gdb threads,
    the following form can be used:
    ptid (1, 1, 0) -> kvm inferior 1, in kernel
    ptid (1, 1, 1) -> kvm inferior 1, process 1
    ptid (1, 1, 2) -> kvm inferior 1, process 2
    ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
/* Native-dependent code for modern AMD64 BSD's.

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  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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```

@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@end display

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@enumerate 0
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```
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info.  */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target.  */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
```

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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.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. 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.)

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,

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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, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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1.41 glib 2.53.7

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1.46 hddtemp 0.3-beta15

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1.50 ifupdown 0.7.53.1

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1.55 iputils s20180629

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1.67 jquery-scrollintoview 1.8

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1.68 json-c 0.13.1

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1.69 Klein 0.2.0

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1.70 kmod 26

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1.71 krb5 1.17

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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
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
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/libgss/g_store_cred.c
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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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  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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     SOURCELINK_SUFFIX: '.txt'
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  <link rel="index" title="Index" href="genindex.html" />
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  <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
 </head>
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     <div class="header">


        <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

        <div class="rel">

     <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
     <a href="mitK5features.html" title="MIT Kerberos features"
        accesskey="P">previous</a> |
     <a href="copyright.html" title="Copyright"
        accesskey="N">next</a> |
     <a href="genindex.html" title="General Index"
        accesskey="I">index</a> |
```

```
      <a href="search.html" title="Enter search criteria"
         accesskey="S">Search</a> |
  <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
        </div>
      </div>
  </div>

  <div class="content-wrapper">
    <div class="content">
      <div class="document">

    <div class="documentwrapper">
      <div class="bodywrapper">
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 <div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
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class="o">.et
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lib/gssapi<span
class="o">/mechglue/<span
class="n">g_process_context.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_buffer.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_cred.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_name.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_rel_oid_set.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_seal.c
lib/gssapi<span
class="o">/mechglue/<span

class="n">g_sign.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_store_cred.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_unseal.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_userok.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_utils.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">g_verify.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">gssd_pname_to_uid.c
lib/gssapi<span
class="o">/mechglue/<span
class="n">mglueP.h
lib/gssapi<span
class="o">/mechglue/<span
class="n">oid_ops.c
lib/gssapi<span
class="o">/spnego/<span
class="n">gssapiP_spnego.h
lib/gssapi<span
class="o">/spnego/<span
class="n">spnego_mech.c
</pre>

and the initial implementation of incremental propagation, including
the following new or changed files:
<pre>include<span
class="o">/iprop_hdr.h
kadmin/server<span
class="o">/ipropd_svc.c
lib/kdb/<span
class="n">iprop.x
lib/kdb/<span
class="n">kdb_convert.c
lib/kdb/<span
class="n">kdb_log.c
lib/kdb/<span
class="n">kdb_log.h
lib/krb5<span

class="o">/error_tables/<span
class="n">kdb5_err.et
kprop/kpropd_rpc<span
class="o">.c
kprop/kproplog<span
class="o">.c
</pre>

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``, including the following files:

.. parsed-literal::

  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:

.. parsed-literal::

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
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_dsp_status.c
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lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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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
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lib/gssapi/mechglue/g_sign.c
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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
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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
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import os
import sys
import re

def warn(fname, ln, msg):
  print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
  return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations.  Return true if the comment
# is a license statement.
```

```
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
  text_seen = False
  is_license = False
  for line in comment:
    if not is_license and indicates_license(line):
      is_license = True
      if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
      elif code_seen:
        warn(fname, ln, 'License after code')
      elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
      break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
      text_seen = True
  return is_license

def check_file(lines, fname):
  # Skip emacs mode line if present.
  ln = 0
  if '-*- mode: c;' in lines[ln]:
    ln += 1

  # Check filename comment if present.
  m = re.match(r'/\* ([^ ]*)( - .*)? \*/', lines[ln])
  if m:
    if m.group(1) != fname:
      warn(fname, ln, 'Wrong filename in comment')
    ln += 1

  # Scan for license statements.
  in_comment = False
  code_seen = False
  nonlicense_seen = False
  for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
      line = re.sub(r'/\*.*?\*/', '', line)
    line = line.strip()

    if not in_comment and '/*' in line:
      (line, sep, comment_part) = line.partition('/*')
      comment = [comment_part.strip()]
      comment_starts_at = ln
      in_comment = True
    elif in_comment and '*/' not in line:
      comment.append(line.lstrip('*').lstrip())
```

```
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                       code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
            in_comment = False
        elif line.strip() != '':
            code_seen = True

        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

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Version 3, 29 June 2007

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@c
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Simple program to use libconfig9 configuration files in bash scripts
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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

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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.)

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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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1.86 libnftnl 1.1.3

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1.87 libnl 3.2.24

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1.88 libnl_lib 3.2.24

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1.89 libpcap 1.9.0

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1.90 libstatsd-cpp 0.0

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1.92 libxml2 2.9.9

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1.93 libxslt 1.1.33

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1.94 Linux kernel 5.2.10

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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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

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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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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.

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If such an object file uses only numerical parameters, data structure

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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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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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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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----

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|

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   ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
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   .dts{i}: // SPDX-License-Identifier: <SPDX License Expression>

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 is the reason for having the "/* */" style comment in C header
 files. There was build breakage observed with generated .lds files where

'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

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```

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```
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```

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```
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```

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```

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```

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```

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```

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License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _`Preferred licenses`:

   Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

   ```
   LICENSES/preferred/
   ```

   in the kernel source tree.

   The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

   Examples::

   ```
   LICENSES/preferred/GPL-2.0
   ```

   Contains the GPL version 2 license text and the required metatags::

   ```
   LICENSES/preferred/MIT
   ```

   Contains the MIT license text and the required metatags

   _`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

  One or more lines which declare which License Identifiers are valid
  inside the project to reference this particular license text. Usually
  this is a single valid identifier, but e.g. for licenses with the 'or
  later' options two identifiers are valid.

- SPDX-URL:

  The URL of the SPDX page which contains additional information related
  to the license.

- Usage-Guidance:

  Freeform text for usage advice. The text must include correct examples
  for the SPDX license identifiers as they should be put into source
  files according to the `License identifier syntax`_ guidelines.

- License-Text:

  All text after this tag is treated as the original license text

File format examples::

    Valid-License-Identifier: GPL-2.0
    Valid-License-Identifier: GPL-2.0+
    SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
    Usage-Guide:
      To use this license in source code, put one of the following SPDX
tag/value pairs into a comment according to the placement
guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
  SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
  SPDX-License-Identifier: GPL-2.0+
    License-Text:
      Full license text

::

    SPDX-License-Identifier: MIT
    SPDX-URL: https://spdx.org/licenses/MIT.html
    Usage-Guide:
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT
License-Text:
Full license text

|

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.
To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.
SPDX-License-Identifier: ISC

License-Text:
Full license text

|

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights
which the original license does not. These exceptions are available
from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full
exception text and the required `Exception Metatags`_.

Examples::

LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING
file of the Linux kernel, which is used for UAPI header files.
e.g. /* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary
independent of its license against the compiled version of a file marked
with this exception. This is required for creating runnable executables
from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license
identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related
to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the

exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct
examples for the SPDX license identifiers as they should be put into
source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
This exception is used together with one of the above SPDX-Licenses
to mark user-space API (uapi) header files so they can be included
into non GPL compliant user-space application code.
To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one
of the above SPDX-Licenses for code imported from the GCC runtime
library.
To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
Full exception text

All SPDX license identifiers and exceptions must have a corresponding file
in the LICENSE subdirectories. This is required to allow tool
verification (e.g. checkpatch.pl) and to have the licenses ready to read
and extract right from the source, which is recommended by various FOSS
organizations, e.g. the `FSFE REUSE initiative <https://reuse.software/>`_.

Contributors
============

.. note::

  This documentation is outdated. There are several other DVB contributors
  that aren't listed below.

Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

 - for the initial saa7146 driver and its recent overhaul

- Christian Theiss

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- Diego Picciani <d.picciani@novacomp.it>

 - for CyberLogin for Linux which allows logging onto EON
   (in case you are wondering where CyberLogin is, EON changed its login
   procedure and CyberLogin is no longer used.)

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 - for the nxt2002 frontend driver

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 - for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

 - for the or51211 and or51132 frontend drivers, and
   for merging the nxt2002 and nxt2004 modules into a
   single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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Version 1.0

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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============================

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LICENSES/exceptions/Linux-syscall-note, as described in the COPYING file.

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should be annotated to make its license clear and unambiguous.
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Aside from that, individual files can be provided under a dual license,
e.g. one of the compatible GPL variants and alternatively under a
permissive license like BSD, MIT etc.

The User-space API (UAPI) header files, which describe the interface of
user-space programs to the kernel are a special case. According to the
note in the kernel COPYING file, the syscall interface is a clear boundary,
which does not extend the GPL requirements to any software which uses it to
communicate with the kernel. Because the UAPI headers must be includable
into any source files which create an executable running on the Linux
kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the
matching boilerplate text into the top comment of the file. Due to
formatting, typos etc. these "boilerplates" are hard to validate for
tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data
Exchange (SPDX) license identifiers in each source file. SPDX license
identifiers are machine parsable and precise shorthands for the license
under which the content of the file is contributed. SPDX license
identifiers are managed by the SPDX Workgroup at the Linux Foundation and
have been agreed on by partners throughout the industry, tool vendors, and

legal teams. For further information see https://spdx.org/

The Linux kernel requires the precise SPDX identifier in all source files.
The valid identifiers used in the kernel are explained in the section
`License identifiers`_ and have been retrieved from the official SPDX
license list at https://spdx.org/licenses/ along with the license texts.

License identifier syntax
----

1. Placement:

  The SPDX license identifier in kernel files shall be added at the first
  possible line in a file which can contain a comment. For the majority
  or files this is the first line, except for scripts which require the
  '#!PATH_TO_INTERPRETER' in the first line. For those scripts the SPDX
  identifier goes into the second line.

|

2. Style:

  The SPDX license identifier is added in form of a comment. The comment
  style depends on the file type::

    C source: // SPDX-License-Identifier: <SPDX License Expression>
    C header: /* SPDX-License-Identifier: <SPDX License Expression> */
    ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
    scripts: # SPDX-License-Identifier: <SPDX License Expression>
    .rst: .. SPDX-License-Identifier: <SPDX License Expression>
    .dts{i}: // SPDX-License-Identifier: <SPDX License Expression>

  If a specific tool cannot handle the standard comment style, then the
  appropriate comment mechanism which the tool accepts shall be used. This
  is the reason for having the "/* */" style comment in C header
  files. There was build breakage observed with generated .lds files where
  'ld' failed to parse the C++ comment. This has been fixed by now, but
  there are still older assembler tools which cannot handle C++ style
  comments.

|

3. Syntax:

  A <SPDX License Expression> is either an SPDX short form license
  identifier found on the SPDX License List, or the combination of two
  SPDX short form license identifiers separated by "WITH" when a license
  exception applies. When multiple licenses apply, an expression consists

of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be

adhered to is::

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related

to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples
for the SPDX license identifiers as they should be put into source
files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

```
Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
  To use this license in source code, put one of the following SPDX
tag/value pairs into a comment according to the placement
guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
  SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
  SPDX-License-Identifier: GPL-2.0+
License-Text:
  Full license text
```

::

```
SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
  SPDX-License-Identifier: MIT
License-Text:
  Full license text
```

|

2. Not recommended licenses:

These licenses should only be used for existing code or for importing
code from a different project. These licenses are available from the
directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and
`Metatags`_. The file names are identical to the SPDX license
identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required
metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the
requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
Usage of this license in the kernel for new code is discouraged
and it should solely be used for importing code from an already
existing project.
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
SPDX-License-Identifier: ISC
License-Text:
Full license text

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights
which the original license does not. These exceptions are available
from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full
exception text and the required `Exception Metatags`_.

Examples::

  LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING
file of the Linux kernel, which is used for UAPI header files.
e.g. /* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

  LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary
independent of its license against the compiled version of a file marked
with this exception. This is required for creating runnable executables
from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

  One exception identifier which can be used with SPDX license
  identifiers.

- SPDX-URL:

  The URL of the SPDX page which contains additional information related
  to the exception.

- SPDX-Licenses:

  A comma separated list of SPDX license identifiers for which the
  exception can be used.

- Usage-Guidance:

  Freeform text for usage advice. The text must be followed by correct
  examples for the SPDX license identifiers as they should be put into
  source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

  All text after this tag is treated as the original exception text

File format examples::

```
   SPDX-Exception-Identifier: Linux-syscall-note
   SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
   SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
   Usage-Guidance:
    This exception is used together with one of the above SPDX-Licenses
to mark user-space API (uapi) header files so they can be included
into non GPL compliant user-space application code.
    To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
  SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
   Exception-Text:
    Full exception text
```

::

```
   SPDX-Exception-Identifier: GCC-exception-2.0
   SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
   SPDX-Licenses: GPL-2.0, GPL-2.0+
   Usage-Guidance:
    The "GCC Runtime Library exception 2.0" is used together with one
of the above SPDX-Licenses for code imported from the GCC runtime
library.
    To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
  SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
   Exception-Text:
    Full exception text
```

All SPDX license identifiers and exceptions must have a corresponding file
in the LICENSE subdirectories. This is required to allow tool
verification (e.g. checkpatch.pl) and to have the licenses ready to read
and extract right from the source, which is recommended by various FOSS
organizations, e.g. the `FSFE REUSE initiative <https://reuse.software/>`_.
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      Version 2, June 1991
```

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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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.)

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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|

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

Other examples using WITH exceptions found in the kernel are::

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is

to be selected. For example, some dtsi files are available under dual
licenses::

  // SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause

Examples from the kernel for license expressions in dual licensed files::

  // SPDX-License-Identifier: GPL-2.0 OR MIT
  // SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
  // SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
  // SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
  // SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
  // SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL

AND should be used if the file has multiple licenses whose terms all
apply to use the file. For example, if code is inherited from another
project and permission has been given to put it in the kernel, but the
original license terms need to remain in effect::

  // SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be
adhered to is::

  // SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

License identifiers

The licenses currently used, as well as the licenses for code added to the
kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be
fully compatible and widely used. These licenses are available from the
directory::

  LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and
`Metatags`_. The file names are identical to the SPDX license
identifier which shall be used for the license in source files.

Examples::

LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
SPDX-License-Identifier: GPL-2.0+
License-Text:

Full license text

::

SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
SPDX-License-Identifier: MIT
License-Text:
Full license text

|

2. Not recommended licenses:

These licenses should only be used for existing code or for importing
code from a different project. These licenses are available from the
directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and
`Metatags`_. The file names are identical to the SPDX license
identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required
metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the
requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
Usage of this license in the kernel for new code is discouraged
and it should solely be used for importing code from an already
existing project.
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
SPDX-License-Identifier: ISC
License-Text:
Full license text

|

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights
which the original license does not. These exceptions are available
from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full
exception text and the required `Exception Metatags`_.

Examples::

LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING
file of the Linux kernel, which is used for UAPI header files.
e.g. /* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary
independent of its license against the compiled version of a file marked
with this exception. This is required for creating runnable executables
from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license

identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related
to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the
exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct
examples for the SPDX license identifiers as they should be put into
source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
This exception is used together with one of the above SPDX-Licenses
to mark user-space API (uapi) header files so they can be included
into non GPL compliant user-space application code.
To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one
of the above SPDX-Licenses for code imported from the GCC runtime
library.
To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
Full exception text

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
```

*
*
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*
* M. Welsh, 6 July 1996
*
*
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```

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```
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```
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static inline int license_is_gpl_compatible(const char *license)
{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

```
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```

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Contributors
============

.. note::

  This documentation is outdated. There are several other DVB contributors
  that aren't listed below.

Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

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  single nxt200x frontend driver.

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----

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|

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ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>

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|

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// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

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// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
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Other examples using WITH exceptions found in the kernel are::

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
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licenses::

// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause

Examples from the kernel for license expressions in dual licensed files::

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// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
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project and permission has been given to put it in the kernel, but the
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// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

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adhered to is::

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

License identifiers

The licenses currently used, as well as the licenses for code added to the
kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

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Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
To use this license in source code, put one of the following SPDX
tag/value pairs into a comment according to the placement
guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
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Full license text

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SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use this license in source code, put the following SPDX
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code from a different project. These licenses are available from the
directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and
`Metatags`_. The file names are identical to the SPDX license
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Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required
metatags::

  LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the
requirements of the `Preferred licenses`_.

File format example::

  Valid-License-Identifier: ISC
  SPDX-URL: https://spdx.org/licenses/ISC.html
  Usage-Guide:
   Usage of this license in the kernel for new code is discouraged
and it should solely be used for importing code from an already
existing project.
   To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
 SPDX-License-Identifier: ISC
  License-Text:
   Full license text

|

3. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights
which the original license does not. These exceptions are available
from the directory::

  LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full
exception text and the required `Exception Metatags`_.

Examples::

  LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING
file of the Linux kernel, which is used for UAPI header files.
e.g. /* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

  One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:

  The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

  A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

  Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

  All text after this tag is treated as the original exception text

File format examples::

```
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
  This exception is used together with one of the above SPDX-Licenses
to mark user-space API (uapi) header files so they can be included
into non GPL compliant user-space application code.
  To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
```

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.
To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
Full exception text

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SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note

Being under the terms of the GNU General Public License version 2 only, according with:

LICENSES/preferred/GPL-2.0

With an explicit syscall exception, as stated at:

LICENSES/exceptions/Linux-syscall-note

In addition, other licenses may also apply. Please see:

Documentation/process/license-rules.rst

for more details.
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It is not the purpose of this section to induce you to infringe any

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Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED

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:orphan:

.. warning::
  In caso di dubbi sulla correttezza del contenuto di questa traduzione,
  l'unico riferimento valido la documentazione ufficiale in inglese.
  Per maggiori informazioni consultate le :ref:`avvertenze <it_disclaimer>`.
.. SPDX-License-Identifier: GPL-2.0

.. include:: ../disclaimer-ita.rst

:Original: :ref:`Documentation/process/license-rules.rst <kernel_licensing>`
:Translator: Federico Vaga <federico.vaga@vaga.pv.it>

.. _it_kernel_licensing:

Regole per licenziare il kernel Linux
=====================================

Il kernel Linux viene rilasciato sotto i termini definiti dalla seconda
versione della licenza *GNU General Public License* (GPL-2.0), di cui una
copia disponibile nel file LICENSES/preferred/GPL-2.0; a questo si
aggiunge eccezione per le chiamate di sistema come descritto in
LICENSES/exceptions/Linux-syscall-note; tutto ci descritto nel file COPYING.

Questo documento fornisce una descrizione su come ogni singolo file sorgente
debba essere licenziato per far si che sia chiaro e non ambiguo. Questo non
sostituisce la licenza del kernel.

La licenza descritta nel file COPYING si applica ai sorgenti del kernel nella
loro interezza, quindi i singoli file sorgenti possono avere diverse licenze ma
devono essere compatibili con la GPL-2.0::

  GPL-1.0+ : GNU General Public License v1.0 o successiva

GPL-2.0+ : GNU General Public License v2.0 o successiva
LGPL-2.0 : GNU Library General Public License v2
LGPL-2.0+ : GNU Library General Public License v2 o successiva
LGPL-2.1 : GNU Lesser General Public License v2.1
LGPL-2.1+ : GNU Lesser General Public License v2.1 o successiva

A parte questo, i singolo file possono essere forniti con una doppia licenza, per esempio con una delle varianti compatibili della GPL e alternativamente con una licenza permissiva come BSD, MIT eccetera.

I file d'intestazione per l'API verso lo spazio utente (UAPI) descrivono le interfacce usate dai programmi, e per questo sono un caso speciale. Secondo le note nel file COPYING, le chiamate di sistema sono un chiaro confine oltre il quale non si estendono i requisiti della GPL per quei programmi che le usano per comunicare con il kernel. Dato che i file d'intestazione UAPI devono poter essere inclusi nei sorgenti di un qualsiasi programma eseguibile sul kernel Linux, questi meritano un'eccezione documentata da una clausola speciale.

Il modo pi comune per indicare la licenza dei file sorgenti quello di aggiungere il corrispondente blocco di testo come commento in testa a detto file. Per via della formattazione, dei refusi, eccetera, questi blocchi di testo sono difficili da identificare dagli strumenti usati per verificare il rispetto delle licenze.

Un'alternativa ai blocchi di testo data dall'uso degli identificatori *Software Package Data Exchange* (SPDX) in ogni file sorgente. Gli identificatori di licenza SPDX sono analizzabili dalle macchine e sono precisi simboli stenografici che identificano la licenza sotto la quale viene licenziato il file che lo include. Gli identificatori di licenza SPDX sono gestiti del gruppo di lavoro SPDX presso la Linux Foundation e sono stati concordati fra i soci nell'industria, gli sviluppatori di strumenti, e i rispettivi gruppi legali. Per maggiori informazioni, consultate https://spdx.org/

Il kernel Linux richiede un preciso identificatore SPDX in tutti i file sorgenti. Gli identificatori validi verranno spiegati nella sezione `Identificatori di licenza`_ e sono stati copiati dalla lista ufficiale di licenze SPDX assieme al rispettivo testo come mostrato in https://spdx.org/licenses/.

Sintassi degli identificatori di licenza
---

1. Posizionamento:

L'identificativo di licenza SPDX dev'essere posizionato come prima riga possibile di un file che possa contenere commenti. Per la maggior parte

dei file questa la prima riga, fanno eccezione gli script che richiedono
come prima riga '#!PATH_TO_INTERPRETER'. Per questi script l'identificativo
SPDX finisce nella seconda riga.

|

2. Stile:

L'identificativo di licenza SPDX viene aggiunto sotto forma di commento.
Lo stile del commento dipende dal tipo di file::

  sorgenti C: // SPDX-License-Identifier: <SPDX License Expression>
  intestazioni C: /* SPDX-License-Identifier: <SPDX License Expression> */
  ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
  scripts: # SPDX-License-Identifier: <SPDX License Expression>
  .rst: .. SPDX-License-Identifier: <SPDX License Expression>
  .dts{i}: // SPDX-License-Identifier: <SPDX License Expression>

Se un particolare programma non dovesse riuscire a gestire lo stile
principale per i commenti, allora dev'essere usato il meccanismo accettato
dal programma. Questo il motivo per cui si ha "/* */" nei file
d'intestazione C. Notammo che 'ld' falliva nell'analizzare i commenti del
C++ nei file .lds che venivano prodotti. Oggi questo stato corretto,
ma ci sono in giro ancora vecchi programmi che non sono in grado di
gestire lo stile dei commenti del C++.

|

3. Sintassi:

Una <espressione di licenza SPDX> pu essere scritta usando l'identificatore
SPDX della licenza come indicato nella lista di licenze SPDX, oppure la
combinazione di due identificatori SPDX separati da "WITH" per i casi
eccezionali. Quando si usano pi licenze l'espressione viene formata da
sottoespressioni separate dalle parole chiave "AND", "OR" e racchiuse fra
parentesi tonde "(", ")".

Gli identificativi di licenza per licenze come la [L]GPL che si avvalgono
dell'opzione 'o successive' si formano aggiungendo alla fine il simbolo "+"
per indicare l'opzione 'o successive'.::

  // SPDX-License-Identifier: GPL-2.0+
  // SPDX-License-Identifier: LGPL-2.1+

WITH dovrebbe essere usato quando sono necessarie delle modifiche alla
licenza. Per esempio, la UAPI del kernel linux usa l'espressione::

  // SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note

```
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Altri esempi di usi di WITH all'interno del kernel sono::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Le eccezioni si possono usare solo in combinazione con identificatori di licenza. Gli identificatori di licenza riconosciuti sono elencati nei corrispondenti file d'eccezione. Per maggiori dettagli consultate `Eccezioni`_ nel capitolo `Identificatori di licenza`_

La parola chiave OR dovrebbe essere usata solo quando si usa una doppia licenza e solo una dev'essere scelta. Per esempio, alcuni file dtsi sono disponibili con doppia licenza::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Esempi dal kernel di espressioni per file licenziati con doppia licenza sono::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

La parola chiave AND dovrebbe essere usata quando i termini di pi licenze si applicano ad un file. Per esempio, quando il codice viene preso da un altro progetto il quale da i permessi per aggiungerlo nel kernel ma richiede che i termini originali della licenza rimangano intatti::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Di seguito, un altro esempio dove entrambe i termini di licenza devono essere rispettati::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

Identificatori di licenza

Le licenze attualmente in uso, cos come le licenze aggiunte al kernel, possono essere categorizzate in:

1. _`Licenze raccomandate`:

Ovunque possibile le licenze qui indicate dovrebbero essere usate perch
pienamente compatibili e molto usate. Queste licenze sono disponibile nei
sorgenti del kernel, nella cartella::

  LICENSES/preferred/

I file in questa cartella contengono il testo completo della licenza e i
`Metatag`_. Il nome di questi file lo stesso usato come identificatore
di licenza SPDX e che deve essere usato nei file sorgenti.

Esempi::

  LICENSES/preferred/GPL-2.0

Contiene il testo della seconda versione della licenza GPL e i metatag
necessari::

  LICENSES/preferred/MIT

Contiene il testo della licenza MIT e i metatag necessari.

_`Metatag`:

I seguenti metatag devono essere presenti in un file di licenza:

- Valid-License-Identifier:

  Una o pi righe che dichiarano quali identificatori di licenza sono validi
  all'interno del progetto per far riferimento alla licenza in questione.
  Solitamente, questo un unico identificatore valido, ma per esempio le
  licenze che permettono l'opzione 'o successive' hanno due identificatori
  validi.

- SPDX-URL:

  L'URL della pagina SPDX che contiene informazioni aggiuntive riguardanti
  la licenza.

- Usage-Guidance:

  Testo in formato libero per dare suggerimenti agli utenti. Il testo deve
  includere degli esempi su come usare gli identificatori di licenza SPDX
  in un file sorgente in conformit con le linea guida in
  `Sintassi degli identificatori di licenza`_.

- License-Text:

  Tutto il testo che compare dopo questa etichetta viene trattato

come se fosse parte del testo originale della licenza.

Esempi::

Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
To use this license in source code, put one of the following SPDX
tag/value pairs into a comment according to the placement
guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
SPDX-License-Identifier: GPL-2.0+
License-Text:
Full license text

::

SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
SPDX-License-Identifier: MIT
License-Text:
Full license text

|

2. Licenze deprecate:

Questo tipo di licenze dovrebbero essere usate solo per codice gi esistente
o quando si prende codice da altri progetti. Le licenze sono disponibili
nei sorgenti del kernel nella cartella::

LICENSES/deprecated/

I file in questa cartella contengono il testo completo della licenza e i
`Metatag`_. Il nome di questi file lo stesso usato come identificatore
di licenza SPDX e che deve essere usato nei file sorgenti.

Esempi::

LICENSES/deprecated/ISC

Contiene il testo della licenza Internet System Consortium e i suoi metatag::

LICENSES/deprecated/GPL-1.0

Contiene il testo della versione 1 della licenza GPL e i suoi metatag.

Metatag:

I metatag necessari per le 'altre' ('other') licenze sono gli stessi di usati per le `Licenze raccomandate`_.

Esempio del formato del file::

```
Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
  Usage of this license in the kernel for new code is discouraged
  and it should solely be used for importing code from an already
  existing project.
  To use this license in source code, put the following SPDX
  tag/value pair into a comment according to the placement
  guidelines in the licensing rules documentation.
    SPDX-License-Identifier: ISC
License-Text:
  Full license text
```

|

3. Solo per doppie licenze

Queste licenze dovrebbero essere usate solamente per codice licenziato in combinazione con un'altra licenza che solitamente quella preferita. Queste licenze sono disponibili nei sorgenti del kernel nella cartella::

LICENSES/dual

I file in questa cartella contengono il testo completo della rispettiva licenza e i suoi `Metatags`_. I nomi dei file sono identici agli identificatori di licenza SPDX che dovrebbero essere usati nei file sorgenti.

Esempi::

LICENSES/dual/MPL-1.1

Questo file contiene il testo della versione 1.1 della licenza *Mozilla Pulic License* e i metatag necessari::

LICENSES/dual/Apache-2.0

Questo file contiene il testo della versione 2.0 della licenza Apache e i
metatag necessari.

Metatag:

I requisiti per le 'altre' ('*other*') licenze sono identici a quelli per le
`Licenze raccomandate`_.

Esempio del formato del file::

Valid-License-Identifier: MPL-1.1
SPDX-URL: https://spdx.org/licenses/MPL-1.1.html
Usage-Guide:
Do NOT use. The MPL-1.1 is not GPL2 compatible. It may only be used for
dual-licensed files where the other license is GPL2 compatible.
If you end up using this it MUST be used together with a GPL2 compatible
license using "OR".
To use the Mozilla Public License version 1.1 put the following SPDX
tag/value pair into a comment according to the placement guidelines in
the licensing rules documentation:
SPDX-License-Identifier: MPL-1.1
License-Text:
Full license text

|

4. _`Eccezioni`:

Alcune licenze possono essere corrette con delle eccezioni che forniscono
diritti aggiuntivi. Queste eccezioni sono disponibili nei sorgenti del
kernel nella cartella::

LICENSES/exceptions/

I file in questa cartella contengono il testo completo dell'eccezione e i
`Metatag per le eccezioni`_.

Esempi::

LICENSES/exceptions/Linux-syscall-note

Contiene la descrizione dell'eccezione per le chiamate di sistema Linux
cos come documentato nel file COPYING del kernel Linux; questo viene usato
per i file d'intestazione per la UAPI. Per esempio
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contiene la 'eccezione di linking' che permette di collegare qualsiasi
binario, indipendentemente dalla sua licenza, con un compilato il cui file
sorgente marchiato con questa eccezione. Questo necessario per creare
eseguibili dai sorgenti che non sono compatibili con la GPL.

_`Metatag per le eccezioni`:

Un file contenente un'eccezione deve avere i seguenti metatag:

- SPDX-Exception-Identifier:

  Un identificatore d'eccezione che possa essere usato in combinazione con
  un identificatore di licenza SPDX.

- SPDX-URL:

  L'URL della pagina SPDX che contiene informazioni aggiuntive riguardanti
  l'eccezione.

- SPDX-Licenses:

  Una lista di licenze SPDX separate da virgola, che possono essere usate
  con l'eccezione.

- Usage-Guidance:

  Testo in formato libero per dare suggerimenti agli utenti. Il testo deve
  includere degli esempi su come usare gli identificatori di licenza SPDX
  in un file sorgente in conformit con le linea guida in
  `Sintassi degli identificatori di licenza`_.

- Exception-Text:

  Tutto il testo che compare dopo questa etichetta viene trattato
  come se fosse parte del testo originale della licenza.

Esempi::

    SPDX-Exception-Identifier: Linux-syscall-note
    SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
    SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
    Usage-Guidance:
      This exception is used together with one of the above SPDX-Licenses
to mark user-space API (uapi) header files so they can be included
into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one
of the above SPDX-Licenses for code imported from the GCC runtime
library.
To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
Full exception text

Per ogni identificatore di licenza SPDX e per le eccezioni dev'esserci un file
nella sotto-cartella LICENSES. Questo necessario per permettere agli
strumenti di effettuare verifiche (come checkpatch.pl), per avere le licenze
disponibili per la lettura e per estrarre i diritti dai sorgenti, cos come
raccomandato da diverse organizzazioni FOSS, per esempio l'`iniziativa FSFE
REUSE <https://reuse.software/>`_.

_`MODULE_LICENSE`

I moduli del kernel necessitano di un'etichetta MODULE_LICENSE(). Questa
etichetta non sostituisce le informazioni sulla licenza del codice sorgente
(SPDX-License-Identifier) n fornisce informazioni che esprimono o
determinano l'esatta licenza sotto la quale viene rilasciato.

Il solo scopo di questa etichetta quello di fornire sufficienti
informazioni al caricatore di moduli del kernel, o agli strumenti in spazio
utente, per capire se il modulo libero o proprietario.

Le stringe di licenza valide per MODULE_LICENSE() sono:

"GPL"	Il modulo licenziato con la GPL versione 2. Questo non fa distinzione fra GPL'2.0-only o GPL-2.0-or-later. L'esatta licenza pu essere determinata solo leggendo i corrispondenti file sorgenti.

"GPL v2" Stesso significato di "GPL". Esiste per
motivi storici.

"GPL and additional rights" Questa una variante che esiste per motivi
storici che indica che i sorgenti di un
modulo sono rilasciati sotto una variante
della licenza GPL v2 e quella MIT. Per favore
non utilizzatela per codice nuovo.

"Dual MIT/GPL" Questo il modo corretto per esprimere il
il fatto che il modulo rilasciato con
doppia licenza a scelta fra: una variante
della GPL v2 o la licenza MIT.

"Dual BSD/GPL" Questo modulo rilasciato con doppia licenza
a scelta fra: una variante della GPL v2 o la
licenza BSD. La variante esatta della licenza
BSD pu essere determinata solo attraverso i
corrispondenti file sorgenti.

"Dual MPL/GPL" Questo modulo rilasciato con doppia licenza
a scelta fra: una variante della GPL v2 o la
Mozilla Public License (MPL). La variante
esatta della licenza MPL pu essere
determinata solo attraverso i corrispondenti
file sorgenti.

"Proprietary" Questo modulo rilasciato con licenza
proprietaria. Questa stringa solo per i
moduli proprietari di terze parti e non pu
essere usata per quelli che risiedono nei
sorgenti del kernel. I moduli etichettati in
questo modo stanno contaminando il kernel e
gli viene assegnato un flag 'P'; quando
vengono caricati, il caricatore di moduli del
kernel si rifiuter di collegare questi
moduli ai simboli che sono stati esportati
con EXPORT_SYMBOL_GPL().

========================== ==

:orphan:

.. warning::

.. note::

<alex.shi@linux.alibaba.com>
.. SPDX-License-Identifier: GPL-2.0

.. include:: ../disclaimer-zh_CN.rst

:Original: :ref:`Documentation/process/license-rules.rst <kernel_licensing>`
:Translator: Alex Shi <alex.shi@linux.alibaba.com>

.. _cn_kernel_licensing:

Linux
==========

LinuxLICENSES/preferred/GPL-2.0GNU2
GPL-2.0LICENSES/exceptions/Linux-syscall-note
COPYING

COPYING
GPL-20::

  GPL-1.0+ : GNUv1.0
  GPL-2.0+ : GNUv2.0
  LGPL-2.0 : GNUv2
  LGPL-2.0+: GNU v2
  LGPL-2.1 : GNUv2.1
  LGPL-2.1+: GNUv2.1

GPLBSD
MIT

APIUAPI
COPYINGsyscallGPL
UAPILinux

SPDX
SPDX
SPDXLinux SPDX

https://spdx.org/

LinuxSPDX
``–
https://spdx.org/licenses/ SPDX

1.:

SPDX
'#!PATH_TO_INTERPRETER'
SPDX

|

2. :

SPDX::

C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>

C /**/.lds
'ld'C++
C++

|

3. :

<SPDX>SPDXSPDX
WITHSPDX
ANDOR

[L]GPL+
::

// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

WITHlinuxUAPI::

// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

WITH::

// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

``_ ``_

ORdtsi
::

// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause

::

// SPDX-License-Identifier: GPL-2.0 OR MIT
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Contributors
============

.. note::

  This documentation is outdated. There are several other DVB contributors
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  single nxt200x frontend driver.

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// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENSES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0+
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
To use this license in source code, put one of the following SPDX
tag/value pairs into a comment according to the placement
guidelines in the licensing rules documentation.
For 'GNU General Public License (GPL) version 2 only' use:
SPDX-License-Identifier: GPL-2.0
For 'GNU General Public License (GPL) version 2 or any later version' use:
SPDX-License-Identifier: GPL-2.0+
License-Text:
Full license text

::

SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use this license in source code, put the following SPDX
tag/value pair into a comment according to the placement
guidelines in the licensing rules documentation.
SPDX-License-Identifier: MIT
License-Text:
Full license text

|

2. Deprecated licenses:

These licenses should only be used for existing code or for importing
code from a different project. These licenses are available from the
directory::

LICENSES/deprecated/

in the kernel source tree.

The files in this directory contain the full license text and
`Metatags`_. The file names are identical to the SPDX license
identifier which shall be used for the license in source files.

Examples::

LICENSES/deprecated/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/deprecated/GPL-1.0

Contains the GPL version 1 license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.
To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.
SPDX-License-Identifier: ISC
License-Text:
Full license text

3. Dual Licensing Only

These licenses should only be used to dual license code with another license in addition to a preferred license. These licenses are available from the directory::

LICENSES/dual/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/dual/MPL-1.1

Contains the Mozilla Public License version 1.1 license text and the
required metatags::

  LICENSES/dual/Apache-2.0

Contains the Apache License version 2.0 license text and the required
metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the
requirements of the `Preferred licenses`_.

File format example::

  Valid-License-Identifier: MPL-1.1
  SPDX-URL: https://spdx.org/licenses/MPL-1.1.html
  Usage-Guide:
    Do NOT use. The MPL-1.1 is not GPL2 compatible. It may only be used for
    dual-licensed files where the other license is GPL2 compatible.
    If you end up using this it MUST be used together with a GPL2 compatible
    license using "OR".
    To use the Mozilla Public License version 1.1 put the following SPDX
    tag/value pair into a comment according to the placement guidelines in
    the licensing rules documentation:
  SPDX-License-Identifier: MPL-1.1
  License-Text:
    Full license text

|

4. _`Exceptions`:

Some licenses can be amended with exceptions which grant certain rights
which the original license does not. These exceptions are available
from the directory::

  LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full
exception text and the required `Exception Metatags`_.

Examples::

  LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING
file of the Linux kernel, which is used for UAPI header files.

e.g. /* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary
independent of its license against the compiled version of a file marked
with this exception. This is required for creating runnable executables
from source code which is not compatible with the GPL.

_`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license
identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related
to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the
exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct
examples for the SPDX license identifiers as they should be put into
source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
This exception is used together with one of the above SPDX-Licenses
to mark user-space API (uapi) header files so they can be included
into non GPL compliant user-space application code.
To use this exception add it with the keyword WITH to one of the

identifiers in the SPDX-Licenses tag:
  SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
    Exception-Text:
      Full exception text

 ::

    SPDX-Exception-Identifier: GCC-exception-2.0
    SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
    SPDX-Licenses: GPL-2.0, GPL-2.0+
    Usage-Guidance:
      The "GCC Runtime Library exception 2.0" is used together with one
of the above SPDX-Licenses for code imported from the GCC runtime
library.
      To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
  SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
    Exception-Text:
      Full exception text

All SPDX license identifiers and exceptions must have a corresponding file
in the LICENSES subdirectories. This is required to allow tool
verification (e.g. checkpatch.pl) and to have the licenses ready to read
and extract right from the source, which is recommended by various FOSS
organizations, e.g. the `FSFE REUSE initiative <https://reuse.software/>`_.

_`MODULE_LICENSE`

 Loadable kernel modules also require a MODULE_LICENSE() tag. This tag is
 neither a replacement for proper source code license information
 (SPDX-License-Identifier) nor in any way relevant for expressing or
 determining the exact license under which the source code of the module
 is provided.

 The sole purpose of this tag is to provide sufficient information
 whether the module is free software or proprietary for the kernel
 module loader and for user space tools.

 The valid license strings for MODULE_LICENSE() are:

  ============================== ==
 "GPL"   Module is licensed under GPL version 2. This
    does not express any distinction between
    GPL-2.0-only or GPL-2.0-or-later. The exact
    license information can only be determined
    via the license information in the

corresponding source files.

"GPL v2" Same as "GPL". It exists for historic
reasons.

"GPL and additional rights" Historical variant of expressing that the
module source is dual licensed under a
GPL v2 variant and MIT license. Please do
not use in new code.

"Dual MIT/GPL" The correct way of expressing that the
module is dual licensed under a GPL v2
variant or MIT license choice.

"Dual BSD/GPL" The module is dual licensed under a GPL v2
variant or BSD license choice. The exact
variant of the BSD license can only be
determined via the license information
in the corresponding source files.

"Dual MPL/GPL" The module is dual licensed under a GPL v2
variant or Mozilla Public License (MPL)
choice. The exact variant of the MPL
license can only be determined via the
license information in the corresponding
source files.

"Proprietary" The module is under a proprietary license.
This string is solely for proprietary third
party modules and cannot be used for modules
which have their source code in the kernel
tree. Modules tagged that way are tainting
the kernel with the 'P' flag when loaded and
the kernel module loader refuses to link such
modules against symbols which are exported
with EXPORT_SYMBOL_GPL().

```
============================== ==========================================
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
```

}

#endif
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

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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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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
```

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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.95 Lm_sensors 3.1.2 :(2010-02-02)

1.95.1 Available under license :

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1.102 megactl 0.4.1

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1.107 mox 0.5.3

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1.108 ncurses 6.1

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1.109 net-snmp 5.7.3

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1.110 net-snmp/snmplib/openssl 5.7.3

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1.111 net-tools 1.60

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That's all there is to it!

1.114 NTP 4.2.8p12

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Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
Kenneth Stone <ken@sdd.hp.com> HP-UX port
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Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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jpg "Clone me," says Dolly sheepishly.

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing

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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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```
/* -*- Mode: Text -*- */

copyright = {
  date  = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type  = ntp;
};

long-opts;
config-header  = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version        = `
eval VERSION=\`sed -e 's/.*,\\[//' -e 's/\\].*//' < ../sntp/m4/version.m4\`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = ''; /* Don't use -v as a shortcut for --version */
```

```
/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// };
```

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 *
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*
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1.121 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* crypto/aes/aes_wrap.c */
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
* project.
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
* size keys (Implemented RFC5649)

```
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1.122 otp 19.3

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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```
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  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
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[edoc, syntax_tools]

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[eldap]

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1.123 packaging 19.0

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1.126 pciutils 3.6.2

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1.127 pcre 8.43

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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STACK-LESS JUST-IN-TIME COMPILER

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THE C++ WRAPPER FUNCTIONS

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1.128 php5 5.6.40

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1.130 popt 1.16

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1.132 prototype.js 1.7

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1.133 psmisc 23.2

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1.134 pyasn1 0.4.5

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1.135 pyasn1-modules 0.2.4

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1.136 python-acme 0.31.0

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1.140 python-Automat 0.7.0

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1.141 python-bidict 0.9.0.post1

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1.142 python-certbot 0.29.1

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1.143 python-cffi 1.9.1

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1.146 python-configargparse 0.14.0

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1.147 python-configobj 5.0.6

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1.148 python-coverage 4.5.2

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Coverage.py was originally written by Gareth Rees, and since 2004 has been extended and maintained by Ned Batchelder.

Other contributions, including writing code, updating docs, and submitting useful bug reports, have been made by:

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1.150 python-dbus 1.2.8

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<signature of Ty Coon>, 1 April 1989
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1.153 python-enum34 1.1.6

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1.154 python-functools32 3.2.3-2

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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
2.2	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
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2.6.5	2.6.4	2010	PSF	yes
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3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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1.156 python-httplib2 0.10.3

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1.159 python-ipaddress 1.0.22

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1.160 python-josepy 1.1.0

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1.161 python-jsonschema 2.6.0

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1.162 python-jwcrypto 0.6.0

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1.163 python-ldap 2.4.41

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1.164 python-ndg-httpsclient 0.5.1

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1.165 python-parsedatetime 2.4

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1.166 python-peewee 2.10.2

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1.167 python-pycparser 2.14

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1.168 python-pycpuid 0.4

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1.169 python-pycrypto 2.7a1

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~~~~~~

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~~~~~~

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2. Replacing some modules with clearly-licensed code from other
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3. Replacing some modules with code written from scratch (e.g. the
   RIPEMD and Blowfish modules were re-implemented from their
   respective algorithm specifications without reference to the old
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4. Removing some modules altogether without replacing them.

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- The various GNU autotools (autoconf, automake, aclocal, etc.) are
  used during the build process. This includes macros from
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X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
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for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
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client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)

Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
 Wed, 27 Aug 2008 20:42:54 -0400
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
 preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
 preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

##
#
This is a proof of posting certificate from
stamper.itconsult.co.uk certifying that a user
claiming to be:-
dlitz@dlitz.net
requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL
dlitz@dlitz.net
#
This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978
#
CAUTION: while the message may well be from the sender
indicated in the "From:" header, the sender
has NOT been authenticated by this service
#

For information about the Stamper service see
http://www.itconsult.co.uk/stamper.htm
#
##

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in
Canada. I am not certain whether PyCrypto contains enough US-origin
cryptography to be covered by U.S. export controls, but I am submitting
this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
 Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
 Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/aq2fi/HNjyrwnqFnUl0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o
XYhY+HbRjsD741/GSpOt9IlN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSlPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX
-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting
code to PyCrypto must be able to certify the following (taken from the Linux

kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
have the right to submit it under the open source license
indicated in the file; or

(b) The contribution is based upon previous work that, to the best
of my knowledge, is covered under an appropriate open source
license and I have the right under that license to submit that
work with modifications, whether created in whole or in part
by me, under the same open source license (unless I am
permitted to submit under a different license), as indicated
in the file; or

(c) The contribution was provided directly to me by some other
person who certified (a), (b) or (c) and I have not modified
it.

(d) I understand and agree that this project and the contribution
are public and that a record of the contribution (including all
personal information I submit with it, including my sign-off) is
maintained indefinitely and may be redistributed consistent with
this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent
that dedication to the public domain is not available, everyone is granted a
worldwide, perpetual, royalty-free, non-exclusive license to exercise all
rights associated with the contents of this file for any purpose whatsoever.
No rights are reserved.

=== EOF ===
00INDEX - This file
tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
==================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence.  This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
==================================================================
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever.  No rights are reserved.
========================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
 by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
 for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
 by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
 for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
 by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
 for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
      for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
      d=gmail.com; s=gamma;
      h=domainkey-signature:mime-version:received:in-reply-to:references
       :date:message-id:subject:from:to:content-type;
      bh=YWy9U32WCU/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;
      b=oMjI22lIxYiJKge2zNJW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY
       B5E6VQuGVEyzBbNsctyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
       L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=nofws;
      d=gmail.com; s=gamma;
      h=mime-version:in-reply-to:references:date:message-id:subject:from:to
```

:content-type;
b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrs24zikHfpSSd5GFogzXaLVvGVH8p
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dwayne,My contribution to pycrypto are very very minimal (The sha256
module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net>wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify".)
>
> ==
> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without

> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==========
>
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps to move toward a
> clearer licensing regime. I am asking as many copyright holders as I can
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>
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
>
> ==========
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> ==========
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha25=
6 module, IIRC). I'd be fine with the public domain license f=
or PyCrypto.
 Jeethu Rao PS: Apologies fo=
r the delay in my response.=A0
I don't really check this email address all that often, =
please direct any further correspondence to <a href=3D"mailto:jeethu@jeethu=
rao.com">jeethu@jeethurao.com

<div class=3D"gmail_quote">On=
Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <span dir=3D"ltr"><=
dlitz@dlitz.net> wrote:<br=
>
<blockquote class=3D"gmail_quote" style=3D"margin:0 0 0 .8ex;border-left:1p=
x #ccc solid;padding-left:1ex;">Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am workin=
g on a new release at <a href=3D"http://www.pycrypto.org/" target=3D"_blank=
">http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-co=
mpatible, etc. =A0Right now, I'm not really sure what to tell them. =A0=
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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. =A0This software is provided "as is" withou=
t
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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--amk =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0(<a href=3D"http://www.amk.ca" target=3D=
"_blank">www.amk.ca)

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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <<a href=3D"mailto:dlitz@dlitz.net" target=3D"_bl=
ank">dlitz@dlitz.net>
=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=
3 39C2 5CF7
</blockquote>
<br clear=3D"all">
--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054--
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

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> ==
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>
> --amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

> ==
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> ==

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
 by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
 for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
 by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
 for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
 by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
 for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-
Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB
2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
 s=s1024; d=yahoo.com;
 h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFooebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7
63caOAlo8Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j
eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqzAffY
4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVytp50clsUFS
Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
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>
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> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or
> suitability for any purpose, express

> or implied. Use at your own risk or
> not at all.
>
> ==
>
> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).
>
> --amk
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> Regards,
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>
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
>   Key-signing key   - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
 preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
 preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3677

Thanks a lot, and don't worry about not responding to previous emails. I
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
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>> software is provided "as is" without
>>   warranty of fitness for use or
>> suitability for any purpose, express
>>   or implied. Use at your own risk or
>> not at all.
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>>   Key-signing key   - 19E1
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>>
>

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
 Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
 Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
>Hi Wim,
>
>I am the new maintainer of the Python Cryptography Toolkit, and I am
>working on a new release at http://www.pycrypto.org/.
>
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> any purpose whatsoever. No rights are reserved.
> ==

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1lLJtBcZ
wrPEa9Oui9s=
=zSY9

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
 protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
 preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
 preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

--YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
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    =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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    Distribute and use freely; there are no restrictions on further
    dissemination and usage except those imposed by the laws of your
    country of residence. This software is provided "as is" without
    warranty of fitness for use or suitability for any purpose, express
    or implied. Use at your own risk or not at all.
    =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=

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Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
 by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
 for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
 by goedel.dlitz.net (Postfix) with QMQP id D632D10111
 for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
 by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
 for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
      (envelope-sender <amk@amk.ca>)
      by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
      for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent: Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15

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The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

```
===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence.  This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk                                (www.amk.ca)
```

For the next PyCrypto release, I would like to take steps to move toward a
clearer licensing regime. I am asking as many copyright holders as I can
find if I can release PyCrypto under something clearer and more standard.
Below, I have quoted a public domain dedication that was recommended in
_Intellectual Property and Open Source: A Practical Guide to Protecting
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Pointer, and Wim Lewis, and they have all approved the following dedication
for their contributions.

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behalf, dedicate to the public domain all your contributions to PyCrypto,
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```
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The contents of this file are dedicated to the public domain.  To the
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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever.  No rights are reserved.
=====================================================================
```

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
 by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
 for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
 by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
 for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
 by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
 for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])

by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=

> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLDHI6agk
evkJnSJQAcVHlZnVlVeR5IXgvDUMakZjU4SOV7MqkhsKA9lIet7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBJtfY=3D
=3DQduY

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==
>
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk   (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname
"z3p" and/or other names. May I, on your behalf, dedicate to the public
domain all your contributions to PyCrypto, with the following notice?

```
 ================================================================================
 The contents of this file are dedicated to the public domain.  To the
 extent that dedication to the public domain is not available, everyone
 is granted a worldwide, perpetual, royalty-free, non-exclusive license
 to exercise all rights associated with the contents of this file for
 any purpose whatsoever.  No rights are reserved.
 ================================================================================
```

Regards,
 - Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
 by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
 for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
 by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
 for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
 by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
 for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
      for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
      d=gmail.com; s=gamma;
      h=domainkey-signature:mime-version:received:in-reply-to:references
       :from:date:message-id:subject:to:content-type
       :content-transfer-encoding;
      bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
      b=gyTqkRhKlHadFKIZCBWsRbnMNVDq1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

Vn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswltaYwNAyMJ
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPFp8AzPI3CefL
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wro=
te:
> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
=A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
nse

> =C2=A0to exercise all rights associated with the contents of this file fo=
r
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
 preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
 preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
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>That's great!
>
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>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>> ==
>
>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
 Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
==========

Incorporating the code into commercial products is permitted; you do
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(though that would be nice).

--amk   (www.amk.ca)

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_Intellectual Property and Open Source: A Practical Guide to Protecting
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
==========

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
 Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
 by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
 for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])
 by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
 for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
 by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
 for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
        (envelope-sender <joris@bontje.nl>)
        by 10.170.1.96 (qmail-ldap-1.03) with SMTP
        for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
 id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
 [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
 Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset=ISO-8859-1;
 format="flowed"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
I was very excited to read that it is now one of the installed
libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to
PyCrypto to the public domain with your suggested notice:
==========

The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
==

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
>
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> working on a new release at http://www.pycrypto.org/.
>
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> ==
>
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> have all approved the following dedication for their contributions.
>
> I understand that you have made contributions to PyCrypto. May I, on your

> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
>
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> any purpose whatsoever. No rights are reserved.
> ==
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
 preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
 id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
 preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,

>
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
>
> You have my full permission to dedicate all my contributions to PyCrypto to
> the public domain with your suggested notice:
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> ==
>
>
> Regards,
> Joris
>
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
>
>> Hi Joris,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>>
>> People often ask me what license PyCrypto is covered by, if it's
>> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
>> The text in the current LICENSE file (quoted below) is not entirely clear
>> on the point of whether distributing modified versions is allowed. (It
>> says "distribute and use", but not "modify".)
>>
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>>
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>> not have to make source available or contribute your changes back
>> (though that would be nice).
>>
>> --amk   (www.amk.ca)
>>
>> For the next PyCrypto release, I would like to take steps to move toward a

>> clearer licensing regime. I am asking as many copyright holders as I can
>> find if I can release PyCrypto under something clearer and more standard.
>> Below, I have quoted a public domain dedication that was recommended in
>> _Intellectual Property and Open Source: A Practical Guide to Protecting
>> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
>> Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they
>> have all approved the following dedication for their contributions.
>>
>> I understand that you have made contributions to PyCrypto. May I, on your
>> behalf, dedicate to the public domain all your contributions to PyCrypto,
>> with the following notice?
>>
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>> ==
>>
>> Regards,
>> - Dwayne
>>
>> --
>> Dwayne C. Litzenberger <dlitz@dlitz.net>
>> Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
>

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
 Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
 Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something

> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
>
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
>
>
> =
> ==
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> for
>   any purpose whatsoever. No rights are reserved.
>
> =
> ==
>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1lIi7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----
00INDEX   This file
LICENSE.orig   Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom LICENSE file from LibTomCrypt
stmts/   Statements by contributors
A. HISTORY OF THE SOFTWARE
==========================

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	no
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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.170 python-pycurl 7.43.0.1

1.170.1 Available under 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.

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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, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.171 python-pygobject 2.28.6

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1.172 python-pyinotify 0.9.6

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1.173 python-pyopenssl 17.5.0

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1.174 python-pyparsing 2.3.1

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1.176 python-pyrfc3339 1.1

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1.177 python-pysnmp 4.4.4

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1.178 python-requests-toolbelt 0.9.1

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1.179 python-service_identity 18.1.0

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1.180 python-setuptools 38.2.5

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1.182 python-twisted 16.6.0

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1.183 python-ujson 1.35

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1.184 python-werkzeug 0.14.1

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1.186 python-zope-component 4.5

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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, 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.

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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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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
    references to Ghostscript; clarified derivation from RFC 1321;
    now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
    added conditionalization for C++ compilation from Martin
    Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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sources if the zlib version found on the system is too old to be
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1.198 scriptaculous 1.8.2

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1.199 sdparm 1.10

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1.200 sed 4.7

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* The apr_vsnprintf/apr_snprintf functions are based on, and used with the
```

```
* permission of, the  SIO stdio-replacement strx_* functions by Panos
* Tsirigotis <panos@alumni.cs.colorado.edu> for xinetd.
*/

/**
* @file apr_base64.h
* @brief APR-UTIL Base64 Encoding
*/
#ifndef APR_BASE64_H
#define APR_BASE64_H

//#include "apu.h"
//#include "apr_general.h"
#define APU_DECLARE(x) x

#ifdef __cplusplus
extern "C" {
#endif

/**
* @defgroup APR_Util_Base64 Base64 Encoding
* @ingroup APR_Util
* @{
*/

/* Simple BASE64 encode/decode functions.
*
* As we might encode binary strings, hence we require the length of
* the incoming plain source. And return the length of what we decoded.
*
* The decoding function takes any non valid char (i.e. whitespace, \0
* or anything non A-Z,0-9 etc as terminal.
*
* plain strings/binary sequences are not assumed '\0' terminated. Encoded
* strings are neither. But probably should.
*
*/

/**
* Given the length of an un-encrypted string, get the length of the
* encrypted string.
* @param len the length of an unencrypted string.
* @return the length of the string after it is encrypted
*/
APU_DECLARE(int) apr_base64_encode_len(int len);

/**
* Encode a text string using base64encoding.
```

```
* @param coded_dst The destination string for the encoded string.
* @param plain_src The original string in plain text
* @param len_plain_src The length of the plain text string
* @return the length of the encoded string
*/
APU_DECLARE(int) apr_base64_encode(char * coded_dst, const char *plain_src,
                                   int len_plain_src);

/**
* Encode an EBCDIC string using base64encoding.
* @param coded_dst The destination string for the encoded string.
* @param plain_src The original string in plain text
* @param len_plain_src The length of the plain text string
* @return the length of the encoded string
*/
APU_DECLARE(int) apr_base64_encode_binary(char * coded_dst,
                                          const unsigned char *plain_src,
                                          int len_plain_src);

/**
* Determine the length of a plain text string given the encoded version
* @param coded_src The encoded string
* @return the length of the plain text string
*/
APU_DECLARE(int) apr_base64_decode_len(const char * coded_src);

/**
* Decode a string to plain text
* @param plain_dst The destination string for the plain text
* @param coded_src The encoded string
* @return the length of the plain text string
*/
APU_DECLARE(int) apr_base64_decode(char * plain_dst, const char *coded_src);

/**
* Decode an EBCDIC string to plain text
* @param plain_dst The destination string for the plain text
* @param coded_src The encoded string
* @return the length of the plain text string
*/
APU_DECLARE(int) apr_base64_decode_binary(unsigned char * plain_dst,
                                          const char *coded_src);

/** @} */
#ifdef __cplusplus
}
#endif
```

#endif /* !APR_BASE64_H */

1.208 sudo 1.8.27

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian

Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff

Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
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Schoenfeld, Patrick
Schuring, Arno
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Simon, Thor Lancelot
Slemko, Marc
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Spangler, Aaron
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Stier, Matthew
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Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri

Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
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Hamming, Peter
Hansen, Joe
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Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
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Koir, Klemen
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Wang, Wylmer

1.209 suds 0.4

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(For example, a function in a library to compute square roots has

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 ignore
scl/syslogconf/convert-syslogconf.awk$
.*/.*\.am$
.*\.(yml|md|y|l|txt|xml|xsd|log|key|crt|files|in|conf\.example|gradle|mk|supp|sub|guess|list|pc\.cmake)$
\..*rc$
.*/[^/]+-grammar\.[ch]$
(.*/)?(README|\.gitignore|pylintrc)$
lib/ivykis
lib/jsonc
modules/afamqp/rabbitmq-c
modules/afmongodb/mongo-c-driver
modules/java/org_syslog_ng_[^./_-]+\.h$
modules/(afmongodb|afamqp)/dummy\.c$
dev-utils/plugin_skeleton_creator/plugin_template.*
(lib|modules)/.*\.conf$
dist\.conf$
.*/\.gradle
scl/syslog-ng\.conf$
tests/copyright/policy$
(syslog-ng-)?config\.h$
lib/cfg-lex\.[ch]$
tgz2build
autom4te\.cache
m4
Mk
.*\.(a|bin|class|css|dirstamp|html|idx|jar|js|o|la|lai|lo|MF|persist|Plo|Po|pc|pyc|so|so\.0\.0\.0|soT|spec|trs)$
(.*/)?Makefile$
doc/man
(_configs\.sed|\.project|\.cproject|config\.status)$
stamp-h1$
tests/functional/test\.conf$
scripts/update-patterndb$

(contrib|debian)
doc/ChangeLog\.[0-9]$
(\.gitmodules|AUTHORS|COPYING|INSTALL|VERSION|aclocal\.m4|compile|configure|depcomp|install-sh|libtool|ltmain\.sh|missing|test-driver|ylwrap)$
.*/[^/.]*$
LGPLv2.1+_SSL
autogen\.sh$
cmake
sub-configure\.sh$
configure\.ac$
Makefile\.am$
lib/(compat|control|debugger|filter|logproto|parser|rewrite|stats|template|tests|transport|logmsg|value-pairs|[^/]*$)
lib/scanner/csv-scanner
lib/str-repr
libtest
syslog-ng(-ctl)?
modules/java-modules/common
modules/java/(native|proxies|src)
modules/native
GPLv2+_SSL
dev-utils/plugin_skeleton_creator/create_plugin.sh
tests
modules/java/(tools|[^/]*$)
modules/java-modules/(dummy|elastic|elastic-v2|hdfs|http|kafka|[^/]*$)
modules/(afamqp|affile|afmongodb|afprog|afsmtp|afsocket|afsql|afstomp|afstreams|afuser|basicfuncs|cef|confgen|cryptofuncs|csvparser|date|diskq|dbparser|geoip|graphite|json|kvformat|linux-kmsg-format|pacctformat|pseudofile|python|redis|riemann|syslogformat|systemd-journal|system-source|[^/]*$)
modules/add-contextual-data
scl
scripts
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syslog-ng/
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modules/java/(native|proxies|src)/
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 ignore
scl/syslogconf/convert-syslogconf.awk$
.*/.*\.am$
.*\.(yml|md|y|l|txt|xml|xsd|log|key|crt|files|in|conf\.example|gradle|mk|supp|sub|guess|list|pc\.cmake)$
\..*rc$
.*/[^/]+-grammar\.[ch]$
(.*/)?(README|\.gitignore|pylintrc)$
lib/ivykis
lib/jsonc
lib/eventlog
modules/afamqp/rabbitmq-c
modules/afmongodb/mongo-c-driver
modules/java/org_syslog_ng_[^./_-]+\.h$
modules/(afmongodb|afamqp)/dummy\.c$
dev-utils/plugin_skeleton_creator/plugin_template.*
(lib|modules)/.*\.conf$
dist\.conf$
.*/\.gradle
scl/syslog-ng\.conf$
tests/copyright/policy$
(syslog-ng-)?config\.h$
lib/cfg-lex\.[ch]$
tgz2build
autom4te\.cache
m4
Mk
.*\.(a|bin|class|css|dirstamp|html|idx|jar|js|o|la|lai|lo|MF|persist|Plo|Po|pc|pyc|so|so\.0\.0\.0|soT|spec|trs)$
(.*/)?Makefile$
doc/man
(_configs\.sed|\.project|\.cproject|config\.status)$
stamp-h1$
tests/functional/test\.conf$
scripts/update-patterndb$
(contrib|debian)
doc/ChangeLog\.[0-9]$
(\.gitmodules|AUTHORS|COPYING|INSTALL|VERSION|aclocal\.m4|compile|configure|depcomp|install-sh|libtool|ltmain\.sh|missing|test-driver|ylwrap)$
.*/[^/.]*$
GPATH|GTAGS|GRTAGS|GSYMS
dbld/build/.*$
dbld/release/.*$
dbld/install/.*$
dbld/images/.*$
LGPLv2.1+_SSL
autogen\.sh$
cmake
sub-configure\.sh$

configure\.ac$
Makefile\.am$
lib/(compat|str-repr|control|debugger|filter|logproto|parser|rewrite|stats|template|tests|transport|logmsg|value-pairs|[^/]*$)
lib/scanner/(csv-scanner|list-scanner|kv-scanner|[^/]*$)
libtest
syslog-ng(-ctl)?
modules/java-modules/common
modules/java/(native|proxies|src)
modules/native
GPLv2+_SSL
dev-utils/plugin_skeleton_creator/create_plugin.sh
tests
modules/java/(tools|[^/]*$)
modules/java-modules/(dummy|elastic|elastic-v2|hdfs|http|kafka|[^/]*$)
modules/(afamqp|affile|afmongodb|afprog|afsmtp|afsocket|afsql|afstomp|afstreams|afuser|basicfuncs|cef|confgen|cryptofuncs|csvparser|date|diskq|dbparser|geoip|geoip2|graphite|json|kvformat|linux-kmsg-format|pacctformat|pseudofile|python|redis|riemann|syslogformat|systemd-journal|getent|system-source|stardate|snmptrapd-parser|[^/]*$)
modules/(add-contextual-data|map-value-pairs|[^/]*$)
scl
scripts
GPLv2+_SSL,non-balabit
modules/http
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FAQ:
====

The questions and answers below try to summarize the intentions behind this licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.

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1.212 sysstat 12.1.1

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1.216 tar 1.32

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1.218 tcpdump 4.9.2

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compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
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lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
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lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
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lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
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test/OptionalRequiredTest.thrift
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*/

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For the strlcat, strlcpy in inktomi++/ink_string.cc:

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~~~

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1.222 tzcode 2018i

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1.223 tzdata 2018i :1.el7

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1.224 Underscore 1.8.3

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1.225 unzip 60

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1.226 uri.js 1.14.1

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```
/*!
* URI.js - Mutating URLs
* URI Template Support - http://tools.ietf.org/html/rfc6570
*
* Version: 1.14.1
*
* Author: Rodney Rehm
* Web: http://medialize.github.io/URI.js/
*
* Licensed under
*   MIT License http://www.opensource.org/licenses/mit-license
*   GPL v3 http://opensource.org/licenses/GPL-3.0
```

```
*
*/
(function (root, factory) {
 'use strict';
 // https://github.com/umdjs/umd/blob/master/returnExports.js
 if (typeof exports === 'object') {
  // Node
  module.exports = factory(require('./URI'));
 } else if (typeof define === 'function' && define.amd) {
  // AMD. Register as an anonymous module.
  define(['./URI'], factory);
 } else {
  // Browser globals (root is window)
  root.URITemplate = factory(root.URI, root);
 }
}(this, function (URI, root) {
'use strict';
// FIXME: v2.0.0 renamce non-camelCase properties to uppercase
/*jshint camelcase: false */

// save current URITemplate variable, if any
var _URITemplate = root && root.URITemplate;

var hasOwn = Object.prototype.hasOwnProperty;
function URITemplate(expression) {
  // serve from cache where possible
  if (URITemplate._cache[expression]) {
    return URITemplate._cache[expression];
  }

  // Allow instantiation without the 'new' keyword
  if (!(this instanceof URITemplate)) {
    return new URITemplate(expression);
  }

  this.expression = expression;
  URITemplate._cache[expression] = this;
  return this;
}

function Data(data) {
  this.data = data;
  this.cache = {};
}

var p = URITemplate.prototype;
// list of operators and their defined options
var operators = {
```

```
// Simple string expansion
'' : {
  prefix: '',
  separator: ',',
  named: false,
  empty_name_separator: false,
  encode : 'encode'
},
// Reserved character strings
'+' : {
  prefix: '',
  separator: ',',
  named: false,
  empty_name_separator: false,
  encode : 'encodeReserved'
},
// Fragment identifiers prefixed by '#'
'#' : {
  prefix: '#',
  separator: ',',
  named: false,
  empty_name_separator: false,
  encode : 'encodeReserved'
},
// Name labels or extensions prefixed by '.'
'.' : {
  prefix: '.',
  separator: '.',
  named: false,
  empty_name_separator: false,
  encode : 'encode'
},
// Path segments prefixed by '/'
'/' : {
  prefix: '/',
  separator: '/',
  named: false,
  empty_name_separator: false,
  encode : 'encode'
},
// Path parameter name or name=value pairs prefixed by ';'
';' : {
  prefix: ';',
  separator: ';',
  named: true,
  empty_name_separator: false,
  encode : 'encode'
},
```

```
  // Query component beginning with '?' and consisting
  // of name=value pairs separated by '&'; an
  '?' : {
    prefix: '?',
    separator: '&',
    named: true,
    empty_name_separator: true,
    encode : 'encode'
  },
  // Continuation of query-style &name=value pairs
  // within a literal query component.
  '&' : {
    prefix: '&',
    separator: '&',
    named: true,
    empty_name_separator: true,
    encode : 'encode'
  }

  // The operator characters equals ("="), comma (","), exclamation ("!"),
  // at sign ("@"), and pipe ("|") are reserved for future extensions.
};

// storage for already parsed templates
URITemplate._cache = {};
// pattern to identify expressions [operator, variable-list] in template
URITemplate.EXPRESSION_PATTERN = /\{([^a-zA-Z0-9%_]?)([^\}]+)(\}|$)/g;
// pattern to identify variables [name, explode, maxlength] in variable-list
URITemplate.VARIABLE_PATTERN = /^([^*:]+)((\*)|:(\d+))?$/;
// pattern to verify variable name integrity
URITemplate.VARIABLE_NAME_PATTERN = /[^a-zA-Z0-9%_]/;

// expand parsed expression (expression, not template!)
URITemplate.expand = function(expression, data) {
  // container for defined options for the given operator
  var options = operators[expression.operator];
  // expansion type (include keys or not)
  var type = options.named ? 'Named' : 'Unnamed';
  // list of variables within the expression
  var variables = expression.variables;
  // result buffer for evaluating the expression
  var buffer = [];
  var d, variable, i;

  for (i = 0; (variable = variables[i]); i++) {
    // fetch simplified data source
    d = data.get(variable.name);
    if (!d.val.length) {
```

```
      if (d.type) {
        // empty variables (empty string)
        // still lead to a separator being appended!
        buffer.push('');
      }
      // no data, no action
      continue;
    }

    // expand the given variable
    buffer.push(URITemplate['expand' + type](
      d,
      options,
      variable.explode,
      variable.explode && options.separator || ',',
      variable.maxlength,
      variable.name
    ));
  }

  if (buffer.length) {
    return options.prefix + buffer.join(options.separator);
  } else {
    // prefix is not prepended for empty expressions
    return '';
  }
};
// expand a named variable
URITemplate.expandNamed = function(d, options, explode, separator, length, name) {
  // variable result buffer
  var result = '';
  // peformance crap
  var encode = options.encode;
  var empty_name_separator = options.empty_name_separator;
  // flag noting if values are already encoded
  var _encode = !d[encode].length;
  // key for named expansion
  var _name = d.type === 2 ? '': URI[encode](name);
  var _value, i, l;

  // for each found value
  for (i = 0, l = d.val.length; i < l; i++) {
    if (length) {
      // maxlength must be determined before encoding can happen
      _value = URI[encode](d.val[i][1].substring(0, length));
      if (d.type === 2) {
        // apply maxlength to keys of objects as well
        _name = URI[encode](d.val[i][0].substring(0, length));
```

```
    }
   } else if (_encode) {
    // encode value
    _value = URI[encode](d.val[i][1]);
    if (d.type === 2) {
     // encode name and cache encoded value
     _name = URI[encode](d.val[i][0]);
     d[encode].push([_name, _value]);
    } else {
     // cache encoded value
     d[encode].push([undefined, _value]);
    }
   } else {
    // values are already encoded and can be pulled from cache
    _value = d[encode][i][1];
    if (d.type === 2) {
     _name = d[encode][i][0];
    }
   }

   if (result) {
    // unless we're the first value, prepend the separator
    result += separator;
   }

   if (!explode) {
    if (!i) {
     // first element, so prepend variable name
     result += URI[encode](name) + (empty_name_separator || _value ? '=' : '');
    }

    if (d.type === 2) {
     // without explode-modifier, keys of objects are returned comma-separated
     result += _name + ',';
    }

    result += _value;
   } else {
    // only add the = if it is either default (?&) or there actually is a value (;)
    result += _name + (empty_name_separator || _value ? '=' : '') + _value;
   }
  }

  return result;
};
// expand an unnamed variable
URITemplate.expandUnnamed = function(d, options, explode, separator, length) {
  // variable result buffer
```

```
var result = '';
// performance crap
var encode = options.encode;
var empty_name_separator = options.empty_name_separator;
// flag noting if values are already encoded
var _encode = !d[encode].length;
var _name, _value, i, l;

// for each found value
for (i = 0, l = d.val.length; i < l; i++) {
 if (length) {
  // maxlength must be determined before encoding can happen
  _value = URI[encode](d.val[i][1].substring(0, length));
 } else if (_encode) {
  // encode and cache value
  _value = URI[encode](d.val[i][1]);
  d[encode].push([
   d.type === 2 ? URI[encode](d.val[i][0]) : undefined,
   _value
  ]);
 } else {
  // value already encoded, pull from cache
  _value = d[encode][i][1];
 }

 if (result) {
  // unless we're the first value, prepend the separator
  result += separator;
 }

 if (d.type === 2) {
  if (length) {
   // maxlength also applies to keys of objects
   _name = URI[encode](d.val[i][0].substring(0, length));
  } else {
   // at this point the name must already be encoded
   _name = d[encode][i][0];
  }

  result += _name;
  if (explode) {
   // explode-modifier separates name and value by "="
   result += (empty_name_separator || _value ? '=' : '');
  } else {
   // no explode-modifier separates name and value by ","
   result += ',';
  }
 }
```

```
    result += _value;
  }

  return result;
};

URITemplate.noConflict = function() {
  if (root.URITemplate === URITemplate) {
    root.URITemplate = _URITemplate;
  }

  return URITemplate;
};

// expand template through given data map
p.expand = function(data) {
  var result = '';

  if (!this.parts || !this.parts.length) {
    // lazilyy parse the template
    this.parse();
  }

  if (!(data instanceof Data)) {
    // make given data available through the
    // optimized data handling thingie
    data = new Data(data);
  }

  for (var i = 0, l = this.parts.length; i < l; i++) {
    /*jshint laxbreak: true */
    result += typeof this.parts[i] === 'string'
      // literal string
      ? this.parts[i]
      // expression
      : URITemplate.expand(this.parts[i], data);
    /*jshint laxbreak: false */
  }

  return result;
};
// parse template into action tokens
p.parse = function() {
  // performance crap
  var expression = this.expression;
  var ePattern = URITemplate.EXPRESSION_PATTERN;
  var vPattern = URITemplate.VARIABLE_PATTERN;
```

```
var nPattern = URITemplate.VARIABLE_NAME_PATTERN;
// token result buffer
var parts = [];
  // position within source template
var pos = 0;
var variables, eMatch, vMatch;

// RegExp is shared accross all templates,
// which requires a manual reset
ePattern.lastIndex = 0;
// I don't like while(foo = bar()) loops,
// to make things simpler I go while(true) and break when required
while (true) {
  eMatch = ePattern.exec(expression);
  if (eMatch === null) {
    // push trailing literal
    parts.push(expression.substring(pos));
    break;
  } else {
    // push leading literal
    parts.push(expression.substring(pos, eMatch.index));
    pos = eMatch.index + eMatch[0].length;
  }

  if (!operators[eMatch[1]]) {
    throw new Error('Unknown Operator "' + eMatch[1]  + '" in "' + eMatch[0] + '"');
  } else if (!eMatch[3]) {
    throw new Error('Unclosed Expression "' + eMatch[0]  + '"');
  }

  // parse variable-list
  variables = eMatch[2].split(',');
  for (var i = 0, l = variables.length; i < l; i++) {
    vMatch = variables[i].match(vPattern);
    if (vMatch === null) {
      throw new Error('Invalid Variable "' + variables[i] + '" in "' + eMatch[0] + '"');
    } else if (vMatch[1].match(nPattern)) {
      throw new Error('Invalid Variable Name "' + vMatch[1] + '" in "' + eMatch[0] + '"');
    }

    variables[i] = {
      name: vMatch[1],
      explode: !!vMatch[3],
      maxlength: vMatch[4] && parseInt(vMatch[4], 10)
    };
  }

  if (!variables.length) {
```

```
      throw new Error('Expression Missing Variable(s) "' + eMatch[0] + '"');
    }

    parts.push({
      expression: eMatch[0],
      operator: eMatch[1],
      variables: variables
    });
  }

  if (!parts.length) {
    // template doesn't contain any expressions
    // so it is a simple literal string
    // this probably should fire a warning or something?
    parts.push(expression);
  }

  this.parts = parts;
  return this;
};

// simplify data structures
Data.prototype.get = function(key) {
  // performance crap
  var data = this.data;
  // cache for processed data-point
  var d = {
    // type of data 0: undefined/null, 1: string, 2: object, 3: array
    type: 0,
    // original values (except undefined/null)
    val: [],
    // cache for encoded values (only for non-maxlength expansion)
    encode: [],
    encodeReserved: []
  };
  var i, l, value;

  if (this.cache[key] !== undefined) {
    // we've already processed this key
    return this.cache[key];
  }

  this.cache[key] = d;

  if (String(Object.prototype.toString.call(data)) === '[object Function]') {
    // data itself is a callback (global callback)
    value = data(key);
  } else if (String(Object.prototype.toString.call(data[key])) === '[object Function]') {
```

```
    // data is a map of callbacks (local callback)
    value = data[key](key);
  } else {
    // data is a map of data
    value = data[key];
  }

  // generalize input into [ [name1, value1], [name2, value2],  ]
  // so expansion has to deal with a single data structure only
  if (value === undefined || value === null) {
    // undefined and null values are to be ignored completely
    return d;
  } else if (String(Object.prototype.toString.call(value)) === '[object Array]') {
    for (i = 0, l = value.length; i < l; i++) {
      if (value[i] !== undefined && value[i] !== null) {
        // arrays don't have names
        d.val.push([undefined, String(value[i])]);
      }
    }

    if (d.val.length) {
      // only treat non-empty arrays as arrays
      d.type = 3; // array
    }
  } else if (String(Object.prototype.toString.call(value)) === '[object Object]') {
    for (i in value) {
      if (hasOwn.call(value, i) && value[i] !== undefined && value[i] !== null) {
        // objects have keys, remember them for named expansion
        d.val.push([i, String(value[i])]);
      }
    }

    if (d.val.length) {
      // only treat non-empty objects as objects
      d.type = 2; // object
    }
  } else {
    d.type = 1; // primitive string (could've been string, number, boolean and objects with a toString())
    // arrays don't have names
    d.val.push([undefined, String(value)]);
  }

  return d;
};

// hook into URI for fluid access
URI.expand = function(expression, data) {
  var template = new URITemplate(expression);
```

```
  var expansion = template.expand(data);

  return new URI(expansion);
 };

 return URITemplate;
}));
```

1.227 usbutils 009

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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 properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

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AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

" quit when a syntax file was already loaded
if exists("b:current_syntax")
 finish
endif

```
" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^"#  ][^#]*+ contained
syn region psfQuotString   start=+"+ skip=+\\"+ end=+"+ contained

syn match  psfObjTag    "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match  psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match  psfObjTags   "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-
z]\+\)*\)*" contained

syn match  psfNumber    "\<\d\+\>" contained
syn match  psfFloat     "\<\d\+\>\(\.\<\d\+\>\)*" contained

syn match  psfLongDate  "\<\d\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained

syn keyword psfState    available configured corrupt installed transient contained
syn keyword psfPState   applied committed superseded contained

syn keyword psfBoolean  false true contained


"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^#  ]\+\s\+[^#"  ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^#  ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend


" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline

syn region psfAttSpec matchgroup=psfAttrib
start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|
supersedes\|superseded_by\)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend
```

```
syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$"
keepend

syn region psfAttNumber matchgroup=psfAttrib
start="^\s*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^\s*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*\(data_model_revision\|layout_version\)\s\+"
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment
end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*\(state\)\s\+" contains=psfState,psfComment end="$"
keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*\(patch_state\)\s\+" contains=psfPState,psfComment
end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\s\+"
contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#.*$"


" Define the default highlighting.
" Only when an item doesn't have highlighting yet

hi def link psfObject       Statement
hi def link psfAttrib       Type
hi def link psfQuotString   String
hi def link psfObjTag       Identifier
hi def link psfAttAbbrev    PreProc
hi def link psfObjTags      Identifier

hi def link psfComment      Comment


" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
```

uganda.txt For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a

context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
further distribution to the GNU GPL. Also when you didn't actually change
anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
contact information with the "--with-modified-by" configure argument or the
MODIFIED_BY define.

==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the

future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a

child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

1.231 vlan 1.9

1.231.1 Available under license :

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However, I (Ben) reworked the MAC-VLAN code extensively, including re-writing
all of the locking code. So, any complaints & bugs should come to me.

--Ben Greear (greearb@candelatech.com)
http://www.candelatech.com/~greear

1.232 wget 1.20.3

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1.234 xml-security-c 1.7.3

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1.235 xmltooling 1.5.3

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1.236 zlib 1.2.11

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1.237 zope.event 4.4

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1.238 zope.interface 4.6.0

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